It was agreed by the Executive Committee of Scottish Universities Physics Alliance that a document should be produced each year listing articles published by SUPA members in the previous calendar year. This is our fourth iteration and is intended to be used both as a record in future external discussions about SUPA and internally by SUPA.

This year the information has been extended to include postdocs and research students and includes all who were in post in 2008, including anyone who took up a post part way through the year and any who may have left during 2008. This document includes the following peer-reviewed publications: articles and conference proceedings that appear in standard journals, and book chapters. Staff were also invited to write a short paragraph on their current work to be included in this document.

This document has been approved by each department within SUPA, in that each person included has had the opportunity to check and correct his/her own entry. The exceptions to this are Glasgow's academic staff who had already checked the information as provided to SUPA, and those for whom a valid e-mail address was not provided. In this second instance we asked for the information to be forwarded by the relevant departments.

Professor Ian G. Halliday
Chief Executive, Scottish Universities Physics Alliance
Abdulgalil, A
Ali Abdulgalil
Research Student
Heriot-Watt University
Zero records

Abernathy, M
Matthew Abernathy
Research Student
University of Glasgow
1 record

The effects of heating on mechanical loss in tantala/silica optical coatings
Abernathy, MR; Harry, GM; Travasso, F; Martin, I; Reid, S; Rowan, S; Hough, J; et al.
PHYSICS LETTERS A

Abraham, E
Eitan Abraham
Academic
Heriot-Watt University
2 records

Failure mechanisms of legacy aircraft wiring and interconnects
Moffat, BG; Abraham, E; Desmulliez, MPY; Koltsov, D; Richardson, A
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION
Volume: 15 Issue: 3 Pages: 808-822 (2008)

Direct and converse magnetoelectric effect at resonant frequency in laminar piezoelectric-magnetostrictive composite
Popov, C; Chang, H; Record, PM; Abraham, E; Whatmore, RW; Huang, Z
JOURNAL OF ELECTROCERAMICS

Abu-Azoum, S
Salima Abu-Azoum
Research Student
University of Strathclyde in Glasgow
Zero records

Acevedo, L
Luis Acevedo
Research Student
Heriot-Watt University
Zero records
Ackemann, T
Thorsten Ackemann
Academic
University of Strathclyde in Glasgow
8 records

All-optical delay line using semiconductor cavity solitons
Pedaci, F; Barland, S; Caboche, E; Genevet, P; Giudici, M; Tredicce, JR; Ackemann, T; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 1 Article Number: 011101 (2008)

Optical spin manipulation of electrically pumped vertical-cavity surface-emitting lasers
Hovel, S; Bischoff, A; Gerhardt, NC; Hofmann, MR; Ackemann, T; Kroner, A; Michalzik, R
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 4 Article Number: 041118 (2008)

Realization of a semiconductor-based cavity soliton laser
Tanguy, Y; Ackemann, T; Firth, WJ; Jager, R
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 1 Article Number: 013907 (2008)

Analysis and optimization of coupling to external cavities in feedback experiments with vertical-cavity surface-emitting lasers
Jentsch, KF; Sondermann, M; Ackemann, T
OPTICS COMMUNICATIONS

Coupling of polarization and spatial degrees of freedom of highly divergent emission in broad-area square vertical-cavity surface-emitting lasers
Babushkin, IV; Schulz-Ruhtenberg, M; Loiko, NA; Huang, KF; Ackemann, T
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 21 Article Number: 213901 (2008)

Self-localized structures in vertical-cavity surface-emitting lasers with external feedback
Paulau, PV; Gomila, D; Ackemann, T; Loiko, NA; Firth, WJ
PHYSICAL REVIEW E
Volume: 78 Issue: 1 Article Number: 016212 (2008)

Characteristics of cavity solitons and drifting excitations in broad-area vertical-cavity surface-emitting lasers with frequency-selective feedback
Tanguy, Y; Radwell, N; Ackemann, T; Jager, R
PHYSICAL REVIEW A
Volume: 78 Issue: 2 Article Number: 023810 (2008)

Control of broad-area vertical-cavity surface emitting laser emission by optically induced photonic crystals
Terhalle, B; Radwell, N; Rose, P; Denz, C; Ackemann, T
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 15 Article Number: 151114 (2008)

Current Research
My research interest covers several aspects of "Nonlinear Photonics" in semiconductor-based devices (in particular VCSELs and VECSELs) and samples of laser-cooled atoms. Objectives are the understanding of the complex nonlinear processes determining the performance of photonic devices and lasers, their control, optimisation and applications as well as the utilization of nonlinearities for all-optical processing. Recent interest extends to quantum dot samples.
**Ackland, GJ**
Graeme Ackland  
Academic  
The University of Edinburgh  
5 records

*Daisyworld: A review*  
Wood, AJ; Ackland, GJ; Dyke, JG; Williams, HTP; Lenton, TM  
REVIEWS OF GEOPHYSICS  
Volume: 46 Issue: 1 Article Number: RG1001 (2008)

*The phonon spectrum of phase-I ammonia: reassignment of lattice mode symmetries from combined molecular and lattice dynamics calculations*  
Reilly, AM; Middlemiss, DS; Siddick, MM; Wann, DA; Ackland, GJ; Wilson, CC; Rankin, DWH; Morrison, CA  
JOURNAL OF PHYSICAL CHEMISTRY A  

*Origin of incommensurate modulations in the high-pressure phosphorus IV phase*  
Marques, M; Ackland, GJ; Lundegaard, LF; Falconi, S; Hejny, C; McMahon, MI; et al.  
PHYSICAL REVIEW B  
Volume: 78 Issue: 5 Article Number: 054120 (2008)

*Metallic-covalent interatomic potential for carbon in iron*  
Hepburn, DJ; Ackland, GJ  
PHYSICAL REVIEW B  
Volume: 78 Issue: 16 Article Number: 165115 (2008)

*Molecular dynamics simulations of the martensitic phase transition process*  
Ackland, GJ; Jones, AP; Noble-Eddy, R  
'Proceedings of the 7th European Symposium on Martensitic Transformations', SEP 10-15, 2006, Bochum, GERMANY  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING  
Volume: 481 Pages: 11-17 (2008)

**Adams, T**  
Tom Adams  
Research Student  
The University of Edinburgh  
Zero records

**Ahsok, P**  
Praveen Ashok  
Research Student  
University of St Andrews  
Zero records

**Al Jebali, R**  
Ramsay Al Jebali  
Research Student  
University of Glasgow  
Zero records
Alemu, T
Tilaye Alemu
Researcher
The University of Edinburgh
Zero records

Alessio, T
Alessio Tierno
Research Student
University of Strathclyde in Glasgow
Zero records

Alexander, C
Calum Alexander
Research Student
University of Glasgow
Zero records

Aliotta, M
Marialuisa Aliotta
Academic
The University of Edinburgh
1 record

Experimental study of proton-induced nuclear reactions in Li-6,Li-7
Cruz, J; Luis, H; Fonseca, M; Fulop, Z; Gyrky, G; Raiola, F; Aliotta, M; Kettner, KU; et al.
'Proceedings of the 3rd Europhysics Conference on Nuclear Physics in Astrophysics (NPA3)', MAR 26-31, 2007, Dresden, GERMANY
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS
Volume: 35 Issue: 1 Article Number: 014004 (2008)

Current Research
My research interests focus on the study of nuclear reactions relevant to astrophysical phenomena. These include both low-energy stable beam experiments, as well as measurements with radioactive ion beams. The objective is to understand nuclear processes taking place during different stages of stellar evolution, ranging from electron screening effects, relevant to quiescent stages of a star’s lifetime, to explosive hydrogen burning, relevant e.g. to novae, supernovae type Ia, and X-ray bursts.

Allan, M
Milan Allan
Research Student
University of St Andrews
1 record

Fermi surface and van hove singularities in the itinerant metamagnet Sr3Ru2O8
Tamai, A; Allan, MP; Mercure, JF; Meevasana, W; Dunkel, R; Lu, DH; Perry, RS; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 2 Article Number: 026407 (2008)

Allan, J
John Allan
Academic
University of St Andrews
Zero records
Allen, RJ
Rosalind Allen
Academic
The University of Edinburgh
5 records

Eliminating fast reactions in stochastic simulations of biochemical networks: A bistable genetic switch
Morelli, MJ; Allen, RJ; Tanase-Nicola, S; ten Wolde, PR
JOURNAL OF CHEMICAL PHYSICS

Reaction coordinates for the flipping of genetic switches
Morelli, MJ; Tanase-Nicola, S; Allen, RJ; ten Wolde, PR
BIOPHYSICAL JOURNAL

Exact solution of a model DNA-inversion genetic switch with orientational control
Visco, P; Allen, RJ; Evans, MR
PHYSICAL REVIEW LETTERS

Homogeneous nucleation under shear in a two-dimensional Ising model: Cluster growth, coalescence, and breakup
Allen, RJ; Valeriani, C; Tanase-Nicola, S; ten Wolde, PR; Frenkel, D
JOURNAL OF CHEMICAL PHYSICS

Nucleation in a Sheared Ising Model: Effects of External Field
Allen, RJ; Valeriani, C; Tanase-Nicola, S
PROGRESS OF THEORETICAL PHYSICS SUPPLEMENT
Issue: 175 Pages: 144-153 (2008)

Allwood-Spiers, S
Sarah Allwood-Spiers
Researcher
University of Glasgow
1 record

The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08003 (2008)

Amaro, M
Mariana Amaro
Research Student
University of Strathclyde in Glasgow
2 records

Effect of polymer strengtheners on the local environment of biocompatible glass as probed by fluorescence
Hungerford, G; Amaro, M; Martins, P; Ferreira, MI; Uttamlal, M; Holmes-Smith, AS
JOURNAL OF FLUORESCENCE
Anania, M
MariaPia Anania
Research Student
University of Strathclyde in Glasgow
1 record

Beam Transport of Ultra-Short Electron Bunches
Anania, MP; van der Geer, SB; de Loos, MJ; Reitsma, AJW; Jaroszynski, DA
ECA

Andersson, E
Erika Andersson
Academic
Heriot-Watt University
2 records

No-signaling bound on quantum state discrimination
Croke, S; Andersson, E; Barnett, SM
PHYSICAL REVIEW A
Volume: 77 Issue: 1 Article Number: 012113 (2008)

Binary search trees for generalized measurements
Andersson, E; Oi, DKL
PHYSICAL REVIEW A
Volume: 77 Issue: 5 Article Number: 052104 (2008)

Current Research
My research interests are quantum information science, quantum measurements, open quantum systems, foundations of quantum theory, and quantum optics. Although I am a theorist, I like to work on problems that have experimental relevance. I am a founding member of QuiSco, a network connecting researchers based in Scotland who are interested in quantum information science. My collaborators include researchers from the UK, Czech Republic, Germany, Italy, Finland, Sweden, the US, Canada and Australia.

André, P
Pascal Andre
Researcher
University of St Andrews
1 record

Hybrid Dendritic Molecules with Confined Chromophore Architecture to Tune Fluorescence Efficiency
Andre, P; Cheng, G; Ruseckas, A; van Mourik, T; Fruchtl, H; Crayston, JA; Morris, RE; et al.
JOURNAL OF PHYSICAL CHEMISTRY B
Current Research
My main research activities focus on nano-colloids and include both properties characterisation and chemical syntheses of metal, semiconductor and magnetic nanoparticles. Relevant applications are related to hybrid optoelectronic devices such as solar cells and LED, medical applications being currently under consideration. Hybrid and core-shell structures based on silver, cadmium and lead selenide, as well as iron-platinum alloy are currently made. Other and past research interests include hybrid organic-inorganic dendrimers, molecular modelling, supercritical fluids, polymers and surfactant solution properties as well as apertureless optical near-field microscopy.

Angus, G
Garry Angus
Research Student
University of St Andrews
Zero records

Angus, L
Lee Angus
Research Student
University of the West of Scotland
Zero records

Annand, JRM
John Annand
Researcher
University of Glasgow
7 records

New results on the Roper resonance and the P-11 partial wave
Sarantsev, AV; Fuchs, M; Kotulla, M; Thoma, U; Ahrens, J; Annand, JRM; Anisovich, AV; et al.
PHYSICS LETTERS B

Incoherent neutral pion photoproduction on C-12
Tarbert, CM; Watts, DP; Aguar, P; Ahrens, J; Annand, JRM; Arends, HJ; Beck, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 13 Article Number: 132301 (2008)

Pion emission in H-2, C-12, Al-27(gamma, pi(+)) reactions at threshold
Golubev, P; Avdeichikov, V; Fissum, KG; Jakobsson, B; Pshenichnov, IA; Briscoe, WI; et al.
NUCLEAR PHYSICS A

Probing cold dense nuclear matter
Subedi, R; Shneor, R; Monaghan, P; Anderson, BD; Aniol, K; Annand, J; Arrington, J; et al.
SCIENCE

Upgrade of the Glasgow photon tagging spectrometer for Mainz 19 MAMI-C
McGeorge, JC; Kellie, JD; Annand, JRM; Ahrens, J; Anthony, I; Clarkson, A; et al.
EUROPEAN PHYSICAL JOURNAL A
Compton scattering from deuterium and the polarizabilities of the neutron
Feldman, G; Andersson, M; Annand, JRM; Codling, R; Fissum, K; Hansen, K; Henshaw, S; et al.
FEW-BODY SYSTEMS

He-3(e,e'pp) and He-3(e,e'pn) reactions at AmPS and MAMI
Middleton, DG; Annand, JRM; Antelo, MA; Ayerbe, C; Barneo, P; Baumann, D; Bermuth, J; et al.
FEW-BODY SYSTEMS

Antonioletti, M
Mario Antonioletti
Researcher
The University of Edinburgh
1 record

Tracking and visualisation of student use of online learning materials in a large undergraduate course
Hardy, J; Bates, S; Hill, J; Antonioletti, M
'Proceedings of the 6th International Conference on Web Based Learning (ICWL 2007)', AUG 15-17, 2007, Edinburgh, SCOTLAND
ADVANCES IN WEB BASED LEARNING - ICWL 2007, LECTURE NOTES IN COMPUTER SCIENCE, Leung, H, Li, F, Lau, R, Li, Q (Eds)

Apostoli, AG
Adam Apostoli
Research Student
The University of Edinburgh
2 records

A review of an experiment on the pressure build-up on the feet of flue organ pipes originally carried out by Noel Bonavia-Hunt
Woolley, AG; Apostoli, AG
'Proceedings of the Spring Conference 2008', MAR 18-19, 2008, Reading, UK
PROCEEDINGS OF THE INSTITUTE OF ACOUSTICS (2008)

Can computers help? Matching the inner ear with the outer ear
Apostoli, AG
MUSIC AND DYSLEXIA: A POSITIVE APPROACH, Miles, T; Westcombe, J; Ditchfield, D (Eds) (2008)

Arlt, J
Jochen Arlt
Academic
The University of Edinburgh
1 record

Trapping multiple particles in single optical tweezers
Li, M; Arlt, J
OPTICS COMMUNICATIONS
Arnold, AS
Aidan Arnold
Academic
University of Strathclyde in Glasgow
4 records

*Smooth inductively coupled ring trap for atoms*
Griffin, PF; Riis, E; Arnold, AS
PHYSICAL REVIEW A
Volume: 77 Issue: 5 Article Number: 051402 (2008)

*Twisting light to trap atoms*
Franke-Arnold, S; Arnold, AS
AMERICAN SCIENTIST

*Experimental single-impulse magnetic focusing of launched cold atoms*
Smith, DA; Arnold, AS; Pritchard, MJ; Hughes, IG
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS
Volume: 41 Issue: 12 Article Number: 125302 (2008)

*Reproducible dynamic dark ring lattices for ultracold atoms*
Houston, N; Riis, E; Arnold, AS
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS
Volume: 41 Issue: 21 Article Number: 211001 (2008)

Arthur, R
Rudy Arthur
Research Student
The University of Edinburgh
Zero records

Arumugam, V
Vinodiran Arumugam
Research Student
The University of Edinburgh
Zero records

Athron, P
Peter Athron
Research Student
University of Glasgow
Zero records

Back, T
Trevor Back
Research Student
The University of Edinburgh
Zero records

Badnell, NR
Nigel Badnell
Academic
University of Strathclyde in Glasgow
11 records
Analog and digital simulations of Maxwellian plasmas for astrophysics
Savin, DW; Badnell, NR; Beiersdorfer, P; Beck, BR; Brown, GV; Bryans, P; Gorczyca, TW; et al.
CANADIAN JOURNAL OF PHYSICS

**Bain, F**
Fiona Bain
Research Student
University of St Andrews
1 record

*High-power Kerr-lens mode-locked ytterbium lasers - art. no. 68712L*
Bain, FM; Lagatsky, AA; Brown, CTA; Sibbett, W
SOLID STATE LASERS XVII: TECHNOLOGY AND DEVICES, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkson, WA, Hodgson, NH, Shori, RK (Eds)

**Bain, H**
Hazel Bain
Research Student
University of Glasgow
1 record

*Solar Flare Impulsive-phase Footpoints in Extreme UV, Soft X-Rays and Hard X-Rays*
Bain, HM; Fletcher, L
Proceedings of the Workshop on First Results from Hinode, AUG 20-24, 2007, Dublin, IRELAND
FIRST RESULTS FROM HINODE, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Matthews, SA, Davis, JM, Harra, LK (Eds)

**Baker, HJ**
Howard Baker
Academic
Heriot-Watt University
1 record

*Development of edge pumped Yb : YAG planar waveguide lasers - art. no. 68710Q*
Baker, HJ; Monjardin, JF; Thomson, I; Trela, N; RValera, JD; Hall, DR
SOLID STATE LASERS XVII: TECHNOLOGY AND DEVICES, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkson, WA, Hodgson, NH, Shori, RK (Eds)

**Ball, RD**
Richard Ball
Academic
The University of Edinburgh
3 records
Resummation of hadroproduction cross-sections at high energy
Ball, RD
NUCLEAR PHYSICS B

Small x resummation with quarks: Deep-inelastic scattering
Altarelli, G; Ball, RD; Forte, S
NUCLEAR PHYSICS B

Higgs production via gluon-gluon fusion with finite top mass beyond next-to-leading order
Marzani, S; Ball, RD; Del Duca, V; Forte, S; Vicini, A
NUCLEAR PHYSICS B

Banglawala, N
Neelofer Banglawala
Research Student
The University of Edinburgh
Zero records

Barbour, RJ
Russell Barbour
Research Student
Heriot-Watt University
2 records

The nonlinear Fano effect
Kroner, M; Govorov, AO; Remi, S; Biedermann, B; Seidl, S; Badolato, A; Petroff, PM; et al.
NATURE

ZnSe Hybrid Microcavities Fabricated Using a MgS Release Layer: Strong & Weak Exciton-Photon Coupling
Curran, A; Barbour, RJ; Morrod, JK; Prior, KA; Kar, AK; Warburton, RJ
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

Barker, MK
Mike Barker
Researcher
The University of Edinburgh
1 record

The stellar populations of M33’s outer regions - IV. Inflow history and chemical evolution
Barker, MK; Sarajedini, A
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Barnes, E
Emma Barnes
Research Student
The University of Edinburgh
Zero records
Barnes, F
Francis Barnes
Researcher
The University of Edinburgh
Zero records

Barnett, SM
Steve Barnett
Academic
University of Strathclyde in Glasgow
9 records

*Light beams with fractional orbital angular momentum and their vortex structure*
Gotte, JB; O'Holleran, K; Preece, D; Flossmann, F; Franke-Arnold, S; Barnett, SM; Padgett, MJ
OPTICS EXPRESS
Volume: 16 Issue: 2 Pages: 993-1006 (2008)

*No-signaling bound on quantum state discrimination*
Croke, S; Andersson, E; Barnett, SM
PHYSICAL REVIEW A
Volume: 77 Issue: 1 Article Number: 012113 (2008)

*Aether drag and moving images*
Leach, J; Wright, AJ; Gotte, JB; Girkin, JM; Allen, L; Franke-Arnold, S; Barnett, SM; Padgett, MJ
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 15 Article Number: 153902 (2008)

*Linear polarizabilities of two- and three-level atoms*
Milonni, PW; Loudon, R; Berman, PR; Barnett, SM
PHYSICAL REVIEW A
Volume: 77 Issue: 4 Article Number: 043835 (2008)

*Linear transformations of quantum states*
Croke, S; Barnett, SM; Stenholm, S
ANNALS OF PHYSICS

*Fourier relationship between the angle and angular momentum of entangled photons*
Jha, AK; Jack, B; Yao, E; Leach, J; Boyd, RW; Buller, GS; Barnett, SM; Franke-Arnold, S; Padgett, MJ
PHYSICAL REVIEW A
Volume: 78 Issue: 4 Article Number: 043810 (2008)

*On the quantum core of an optical vortex*
Barnett, SM
JOURNAL OF MODERN OPTICS

*Optical momentum in negative-index media*
Scullion, MG; Barnett, SM
JOURNAL OF MODERN OPTICS

*Moving images – are they laterally displaced by transmission through a stationary glass window?*
Padgett, M; Leach, J; Götte, J; Franke-Arnold, S; Allen, L; Wright, A; Barnett, SM
COHERENCE AND QUANTUM OPTICS 9 (2008)
**Barr, BW**
Bryan Barr  
Researcher  
University of Glasgow  
6 records

*All-sky search for periodic gravitational waves in LIGO S4 data*  
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; *et al.*  
PHYSICAL REVIEW D  
Volume: 77 Issue: 2 Article Number: 022001 (2008)

*Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs*  
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; *et al.*  
PHYSICAL REVIEW D  
Volume: 77 Issue: 6 Article Number: 062004 (2008)

*Search for gravitational waves from binary inspirals in S3 and S4 LIGO data*  
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; *et al.*  
PHYSICAL REVIEW D  
Volume: 77 Issue: 6 Article Number: 062002 (2008)

*A joint search for gravitational wave bursts with AURIGA and LIGO*  
Baggio, I; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; *et al.*  
CLASSICAL AND QUANTUM GRAVITY  

*Techniques in the optimization of length sensing and control systems for a three-mirror coupled cavity*  
Huttner, SH; Barr, BW; Taylor, JR; Plissi, MV; Sorazu, B; Strain, KA  
CLASSICAL AND QUANTUM GRAVITY  

*Astrophysically triggered searches for gravitational waves: status and prospects*  
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; *et al.*  
CLASSICAL AND QUANTUM GRAVITY  
Volume: 25 Issue: 11 Article Number: 114051 (2008)

**Barrett-Freeman, C**
Conrad Barrett Freeman  
Research Student  
The University of Edinburgh  
1 record

*Nonequilibrium phase transition in the sedimentation of reproducing particles*  
Barrett-Freeman, C; Evans, MR; Marenduzzo, D; Poon, WCK  
PHYSICAL REVIEW LETTERS  
Volume: 101 Issue: 10 Article Number: 100602 (2008)

**Barton, JS**
Jim Barton  
Academic  
Heriot-Watt University  
5 records
Two-axis temperature-insensitive accelerometer based on multicore fiber Bragg gratings
Fender, A; MacPherson, WN; Maier, RRJ; Barton, JS; George, DS; Howden, RI; et al.
'Proceedings of the 3rd European Workshop on Optical Fiber Sensors', 2007, Naples, ITALY
IEEE SENSORS JOURNAL
Volume: 8 Issue: 7-8 Pages: 1292-1298 (2008)

Radial deformation measurement of a cylinder under compression using multicore fibre - art. no. 70040G
Fender, A; MacPherson, WN; Maier, RRJ; Barton, JS; Jones, JDC; Ellis, KS; Leppard, CL; et al.
'Proceedings of the 19th International Conference on Optical Fibre Sensors', APR 15-18, 2008, Perth, AUSTRALIA
19TH INTERNATIONAL CONFERENCE ON OPTICAL FIBRE SENSORS, PTS 1 AND 2, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Sampson, D, Collins, S, Oh, K, Yamauchi, R (Eds)

Ratiometric interrogation of dynamically strained fiber Bragg gratings - art. no. 70040A
Maier, RRJ; Barton, JS; Kuhn, M
'Proceedings of the 19th International Conference on Optical Fibre Sensors', APR 15-18, 2008, Perth, AUSTRALIA
19TH INTERNATIONAL CONFERENCE ON OPTICAL FIBRE SENSORS, PTS 1 AND 2, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Sampson, D, Collins, S, Oh, K, Yamauchi, R (Eds)

Three-core tellurite fiber with multiple rare earth emission
Bookey, HT; Thomson, RP; Psaila, ND; Kar, AK; Lousteau, J; Jha, A; Gayraud, N; et al.
2008 CONFERENCES ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 238-239 (2008)

Ultrafast laser inscription of a three dimensional fan-out device for multicore fiber coupling applications
Thomson, RR; Bookey, HT; Psaila, ND; Fender, A; Campbell, S; Macpherson, WN; et al.
2008 CONFERENCES ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2812-2813 (2008)

Bassiri, R
Riccardo Bassiri
Research Student
University of Glasgow
Zero records

Bastarrika, M
Mikel Bastarrika
Research Student
University of Glasgow
4 records

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS
Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Bates, A
Alison Bates
Researcher
University of Glasgow
1 record

The LHCb Detector at the LHC
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08005 (2008)

Bates, RL
Richard Bates
Researcher
University of Glasgow
9 records

The detector control system of the ATLAS SemiConductor Tracker during macro-assembly and integration
Abdesselam, A; Barr, A; Basiladze, S; Bates, RL; Bell, P; Bingefors, N; Bohm, J; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P02007 (2008)

Engineering for the ATLAS SemiConductor Tracker (SCT) end-cap
Abdesselam, A; Allport, PP; Anderson, B; Andricek, L; Anghinolfi, F; Apsimon, RJ; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P05002 (2008)

First double-sided 3-D detectors fabricated at CNM-IMB
Pellegrini, G; Lozano, M; Ullan, M; Bates, R; Fleta, C; Pennicard, D
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Simulations of radiation-damaged 3D detectors for the Super-LHC
Pennicard, D; Pellegrini, G; Fleta, C; Bates, R; O'Shea, V; Parkes, C; Tartoni, N
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
The evaporative cooling system for the ATLAS inner detector
Attree, D; Anderson, B; Anderssen, EC; Akhnazarov, V; Apsimon, RJ; Barclay, P; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P07003 (2008)

Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors
Abate, E; Abdesselam, A; Addy, TN; Akesson, TPA; Allport, PP; Andricek, L; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P08003 (2008)

The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08003 (2008)

The integration and engineering of the ATLAS SemiConductor Tracker Barrel
Abdesselam, A; Allport, PP; Anastopoulos, C; Anderson, B; Andricek, L; Anghinolfi, F; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P10006 (2008)

Spectral characterisation and noise performance of Vanilla - an active pixel sensor
Blue, A; Bates, R; Bonhiek, SE; Clark, A; Costas, A; Greenshaw, T; Laing, A; et al.
'Proceedings of the 9th International Workshop on Radiation Imaging Detectors', JUL 22-26, 2007, Nuremberg, GERMANY
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Bates, S
Simon Bates
Academic
The University of Edinburgh
1 record

Tracking and visualisation of student use of online learning materials in a large undergraduate course
Hardy, J; Bates, S; Hill, J; Antonioletti, M
'Proceedings of the 6th International Conference on Web Based Learning (ICWL 2007)', AUG 15-17, 2007, Edinburgh, SCOTLAND
ADVANCES IN WEB BASED LEARNING - ICWL 2007, LECTURE NOTES IN COMPUTER SCIENCE, Leung, H, Li, F, Lau, R, Li, Q (Eds)

Battaglia, M
Marina Battaglia
Researcher
University of Glasgow
2 records

Observational evidence for return currents in solar flare loops
Battaglia, M; Benz, AO
ASTRONOMY & ASTROPHYSICS
Hard X-ray emission from the solar corona
Krucker, S; Battaglia, M; Cargill, PJ; Fletcher, L; Hudson, HS; MacKinnon, AL; et al.
ASTRONOMY AND ASTROPHYSICS REVIEW
Volume: 16 Issue: 3-4 Pages: 155-208 (2008)

**Baumberger, F**
Felix Baumberger
Academic
University of St Andrews
4 records

Electronic structure at the C-60/metal interface: An angle-resolved photoemission and first-principles study
Tamai, A; Seitsonen, AP; Baumberger, F; Hengsberger, M; Shen, ZX; Greber, T; Osterwalder, J
PHYSICAL REVIEW B
Volume: 77 Issue: 7 Article Number: 075134 (2008)

Photoemission momentum mapping and wave function analysis of surface and bulk states on flat Cu(111) and stepped Cu(443) surfaces: A two-photon photoemission study
Hengsberger, M; Baumberger, F; Neff, HJ; Greber, T; Osterwalder, J
PHYSICAL REVIEW B
Volume: 77 Issue: 8 Article Number: 085425 (2008)

Extracting the spectral function of the cuprates by a full two-dimensional analysis: Angle-resolved photoemission spectra of Bi2Sr2CuO6
Meevasana, W; Baumberger, F; Tanaka, K; Schmitt, F; Dunkel, WR; Lu, DH; Mo, SK; Eisaki, H; Shen, ZX
PHYSICAL REVIEW B
Volume: 77 Issue: 10 Article Number: 104506 (2008)

Fermi surface and van hove singularities in the itinerant metamagnet Sr3Ru2O9
Tamai, A; Allan, MP; Mercure, JF; Meevasana, W; Dunkel, R; Lu, DH; Perry, RS; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 2 Article Number: 026407 (2008)

**Baumgartl, J**
Joerg Baumgartl
Researcher
University of St Andrews
2 records

Optically mediated particle clearing using Airy wavepackets
Baumgartl, J; Mazilu, M; Dholakia, K
NATURE PHOTONICS

Phonon dispersion curves of two-dimensional colloidal crystals: the wavelength-dependence of friction
Baumgartl, J; Dietrich, J; Dobnikar, J; Bechinger, C; von Grunberg, HH
SOFT MATTER

**Baxter, R**
Robert Baxter
Researcher
The University of Edinburgh
Zero records
Beck, R
Rainer Beck
Research Student
Heriot-Watt University
Zero records

Beckett, G
George Beckett
Researcher
The University of Edinburgh
Zero records

Beecher, S
Stephen Beecher
Research Student
Heriot-Watt University
1 record

*Shaping ultrafast laser inscribed optical waveguides using a deformable mirror*
Thomson, RR; Bockelt, AS; Ramsay, E; Beecher, S; Greenaway, AH; Kar, AK; Reid, DT
OPTICS EXPRESS

Beggs, DM
Daryl Beggs
Researcher
University of St Andrews
3 records

*Ultracompact and low-power optical switch based on silicon photonic crystals*
Beggs, DM; White, TP; O'Faolain, L; Krauss, TF
OPTICS LETTERS
Volume: 33 Issue: 2 Pages: 147-149 (2008)

*Coupling length of silicon-on-insulator directional couplers probed by Fourier-space imaging*
Jagerska, J; Le Thomas, N; Houdre, R; Beggs, DM; O'Brien, D; Krauss, TF
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 15 Article Number: 151106 (2008)

*Accurate determination of the functional hole size in photonic crystal slabs using optical methods*
Beggs, DM; O'Faolain, L; Krauss, TF
PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS

Bejtka, K
Katarzyna Bejtka
Research Student
University of Strathclyde in Glasgow
4 records

*Fabrication and characterization of ultrathin double dielectric mirror GaN microcavities*
Bejtka, K; Edwards, PR; Martin, RW; Reveret, F; Vasson, A; Leymarie, J; Sellers, IR; et al.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY
Volume: 23 Issue: 4 Article Number: 045008 (2008)
Strong light-matter coupling in ultrathin double dielectric mirror GaN microcavities
Bejtka, K; Reveret, F; Martin, RW; Edwards, PR; Vasson, A; Leymarie, J; Sellers, IR; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 24 Article Number: 241105 (2008)

Composition and luminescence of AlInGaN layers grown by plasma-assisted molecular beam epitaxy
Bejtka, K; Edwards, PR; Martin, RW; Fernandez-Garrido, S; Calleja, E
JOURNAL OF APPLIED PHYSICS

Selective wet etching of AlInN layers for nitride-based MEMS and photonic device structures - art. no. 69930E
Watson, IM; Xiong, C; Gu, E; Dawson, MD; Rizzi, F; Bejtka, K; Edwards, PR; Martin, RW
'Proceedings of the Conference on MEMS, MOEMS and Micromachining III', APR 09-10, 2008, Strasbourg, FRANCE
MEMS, MOEMS, AND MICROMACHING III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Urey, H (Eds)

Bell, WH
William Bell
Researcher
University of Glasgow
4 records

Engineering for the ATLAS SemiConductor Tracker (SCT) end-cap
Abdesselam, A; Allport, PP; Anderson, B; Andricek, L; Anghinolfi, F; Apsimon, RJ; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P05002 (2008)

Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors
Abate, E; Abdesselam, A; Addy, TN; Akesson, TPA; Allport, PP; Andricek, L; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P08003 (2008)

The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08003 (2008)

The integration and engineering of the ATLAS SemiConductor Tracker Barrel
Abdesselam, A; Allport, PP; Anastopoulos, C; Anderson, B; Andricek, L; Anghinolfi, F; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P10006 (2008)

Bellini, E
Eleonora Bellini
Research Student
University of Glasgow
Zero records
Bennet, ED
Euan Bennet
Research Student
University of Glasgow
1 record

Radiation hardness study on fused silica
Hoek, M; Bennet, ED; Branford, D; Cowie, EN; Duren, M; Fohl, K; Glazier, D; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Berera, A
Arjun Berera
Academic
The University of Edinburgh
1 record

Warm hilltop inflation
Sanchez, JCB; Bastero-Gil, M; Berera, A; Dimopoulos, K
PHYSICAL REVIEW D
Volume: 77 Issue: 12 Article Number: 123527 (2008)

Bergenek, K
Krister Bergenek
Research Student
University of St Andrews
2 records

Enhanced light extraction efficiency from AlGaInP thin-film light-emitting diodes with photonic crystals
Bergenek, K; Wiesmann, C; Wirth, R; O'Faolain, L; Linder, N; Streubel, K; Krauss, TF
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 4 Article Number: 041105 (2008)

Directional light extraction from thin-film resonant cavity light-emitting diodes with a photonic crystal
Bergenek, K; Wiesmann, C; Zull, H; Wirth, R; Sundgren, P; Linder, N; Streubel, K; Krauss, TF
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 23 Article Number: 231109 (2008)

Berkvens, T
Thomas Berkvens
Research Student
Heriot-Watt University
Zero records

Berridge, A
Andrew Berridge
Research Student
University of St Andrews
Zero records
Besseling, R
Rut Besseling
Researcher
The University of Edinburgh
1 record

*Slip and Flow of Hard-Sphere Colloidal Glasses*
Ballesta, P; Besseling, R; Isa, L; Petekidis, G; Poon, WCK
PHYSICAL REVIEW LETTERS

Best, P
Philip Best
Academic
The University of Edinburgh
10 records

*A sample of mJy radio sources at 1.4 GHz in the Lynx and Hercules fields - II. Cosmic evolution of the space density of FR I radio sources*
Rigby, EE; Best, PN; Snellen, IAG
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*Radio jets in galaxies with actively accreting black holes: new insights from the SDSS*
Kauffmann, G; Heckman, TM; Best, PN
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*A Combined EIS-NVSS Survey Of Radio Sources (CENSORS) - III. Spectroscopic observations*
Brookes, MH; Best, PN; Peacock, JA; Rottgering, HJ; Dunlop, JS
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*Exploring the infrared/radio correlation at high redshift*
Ibar, E; Cirasuolo, M; Ivison, R; Best, P; Smail, I; Biggs, A; Simpson, C; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*The evolution of the brightest cluster galaxies since z similar to 1 from the ESO Distant Cluster Survey (EdisCS)*
Whiley, IM; Aragon-Salamanca, A; De Lucia, G; von der Linden, A; Bamford, SP; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*HiZELS: a high-redshift survey of H alpha emitters - I. The cosmic star formation rate and clustering at z=2.23*
Geach, JE; Smail, I; Best, PN; Kurk, J; Casali, M; Ivison, RJ; Coppin, K
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*Radio-loud active galactic nuclei and the L-X-sigma relation of galaxy groups and clusters*
Shen, SY; Kauffmann, G; von der Linden, A; White, SDM; Best, PN
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
The relation between star formation, morphology, and local density in high-redshift clusters and groups
Poggianti, BM; Desai, V; Finn, R; Bamford, S; De Lucia, G; Varela, J; Aragon-Salamanca, A; et al.
ASTROPHYSICAL JOURNAL

Radio-loud AGN in the XMM-LSS field I. Optical identification and sample selection
Tasse, C; Le Borgne, D; Rottgering, H; Best, PN; Pierre, M; Rocca-Volmerange, B
ASTRONOMY & ASTROPHYSICS
Volume: 490 Issue: 3 (2008)

Radio-loud AGN in the XMM-LSS field II. A dichotomy in environment and accretion mode?
Tasse, C; Best, PN; Rottgering, H; Le Borgne, D
ASTRONOMY & ASTROPHYSICS
Volume: 490 Issue: 3 Pages: 893-904 (2008)

Bethune, I
Iain Bethune
Researcher
The University of Edinburgh
Zero records

Betouras, JJ
Joseph Betouras
Researcher
University of St Andrews
1 record

Nonanalytic behavior of two-dimensional itinerant ferromagnets
Efremov, DV; Betouras, JJ; Chubukov, A
PHYSICAL REVIEW B
Volume: 77 Issue: 22 Article Number: 220401 (2008)

Current Research
My research interests are on strongly correlated electron physics as well as mesoscopic physics. More specifically at the moment I am working on problems (i) of the theory of magnets (surface transitions of a triple-q antiferromagnet, frustrated magnetic systems, ferromagnetism close to a quantum critical point), (ii) multiferroics (materials where magnetic order is also related to ferroelectricity). In the past I have worked on high-Tc and other unconventional superconductivity, the physics of edge states of a quantum Hall system, and Wigner crystallization.

Beveridge, NL
Nicola Louise Beveridge
Research Student
University of Glasgow
Zero records

Bian, N
Nicolas Bian
Researcher
University of Glasgow
Zero records
A new approach to the Sachs-Wolfe effect
Mendonca, JT; Bingham, R; Wang, CHT
CLASSICAL AND QUANTUM GRAVITY

Plasma heating by intense electron beams in fast ignition
Sircombe, NJ; Bingham, R; Sherlock, M; Mendonca, T; Norreys, P
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 6 Article Number: 065005 (2008)

Demonstration of auroral radio emission mechanisms by laboratory experiment
McConville, SL; Speirs, DC; Ronald, K; Phelps, ADR; Cross, AW; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074010 (2008)

Numerical simulation of auroral cyclotron maser processes
Speirs, DC; McConville, SL; Gillespie, KM; Ronald, K; Phelps, ADR; Cross, AW; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074011 (2008)

Cyclotron Maser Radiation from an Inhomogeneous Plasma
Cairns, RA; Vorgul, I; Bingham, R
PHYSICAL REVIEW LETTERS

Radiation by energetic electrons accelerated by wave-particle interaction: a plausible mechanism for x-ray emission from the Venus mantle
Bingham, R; Quest, KB; Shapiro, VD; Kellett, BJ
ANNALES GEOPHYSICAES

Radio frequency resonator structure and diagnostic measurements for a laboratory simulation of Auroral Kilometric Radiation
Ronald, K; Speirs, DC; McConville, SL; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
PHYSICS OF PLASMAS
Volume: 15 Issue: 5 Article Number: 056503 (2008)

Electron beam measurements for a laboratory simulation of auroral kilometric radiation
Ronald, K; McConville, SL; Speirs, DC; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
'Proceedings of the 28th International Conference on Phenomena in Ionized Gases', JUL 15-20, 2007, Prague, CZECH REPUBLIC
PLASMA SOURCES SCIENCE & TECHNOLOGY
Volume: 17 Issue: 3 Article Number: 035011 (2008)
3D PiC code simulations for a laboratory experimental investigation of Auroral Kilometric Radiation mechanisms
Gillespie, KM; Speirs, DC; Ronald, K; McConville, SL; Phelps, ADR; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 12 Article Number: 124038 (2008)

Laboratory Reproduction of Auroral Magnetospheric Radio Wave Sources
Ronald, K; Speirs, DC; McConville, SL; Gillespie, KM; Phelps, ADR; Cross, AW; et al.
FRONTIERS IN MODERN PLASMA PHYSICS, AIP CONFERENCE PROCEEDINGS, Shukla, PK, Eliasson, B, Stenflo, L (Eds)

The interaction of a flowing plasma with a dipole magnetic field: measurements and modelling of a diamagnetic cavity relevant to spacecraft protection
Bamford, R; Gibson, KJ; Thornton, AJ; Bradford, J; Bingham, R; Gargate, L; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 12 Article Number: 124025 (2008)

Binoth, T
Thomas Binoth
Academic
The University of Edinburgh
3 records

Loop induced interference effects in Higgs boson plus two jet production at the LHC
Andersen, JR; Smillie, JM; Binoth, T; Heinrich, G
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 2 Article Number: 057 (2008)

NLO QCD corrections to tri-boson production
Binoth, T; Ossola, G; Papadopoulos, CG; Pittau, R
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 082 (2008)

Precise predictions for LHC using a GOLEM
Binoth, T; Guffanti, A; Guillet, JP; Heinrich, G; Karg, S; Kauer, N; Mertsch, P; et al.
'Proceedings of the 9th DESY Workshop on Elementary Particle Theory', APR 20-25, 2008, Sondershausen, GERMANY
NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS

Birch, DJS
David Birch
Academic
University of Strathclyde in Glasgow
5 records

Nonextensive kinetics of fluorescence resonance energy transfer
Rolinski, OJ; Birch, DJS
JOURNAL OF CHEMICAL PHYSICS
Nanomedicine and its potential in diabetes research and practice
Pickup, JC; Zhi, ZL; Khan, F; Saxl, T; Birch, DJS
DIABETES-METABOLISM RESEARCH AND REVIEWS

Effect of pH on aqueous phenylalanine studied using a 265-nm pulsed light-emitting diode
Macmillan, AM; McGuinness, CD; Sagoo, K; McLoskey, D; Pickup, JC; Birch, DJS
Proceedings of the 10th International Conference on Methods and Applications of Fluorescence - Spectroscopy, Imaging and Probes, SEP 09-12, 2007, Salzburg, AUSTRIA
FLUORESCENCE METHODS AND APPLICATIONS: SPECTROSCOPY, IMAGING, AND PROBES, ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, Wolfbeis, OS (Eds)

Human serum albumin-flavonoid interactions monitored by means of tryptophan kinetics
Rolinski, OJ; Martin, A; Birch, DJS
Proceedings of the 10th International Conference on Methods and Applications of Fluorescence - Spectroscopy, Imaging and Probes, SEP 09-12, 2007, Salzburg, AUSTRIA
FLUORESCENCE METHODS AND APPLICATIONS: SPECTROSCOPY, IMAGING, AND PROBES, ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, Wolfbeis, OS (Eds)

Toward single-metal-ion sensing by Forster resonance energy transfer
Sutter, JU; Macmillan, AM; Birch, DJS; Rolinski, OJ
Proceedings of the 10th International Conference on Methods and Applications of Fluorescence - Spectroscopy, Imaging and Probes, SEP 09-12, 2007, Salzburg, AUSTRIA
FLUORESCENCE METHODS AND APPLICATIONS: SPECTROSCOPY, IMAGING, AND PROBES, ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, Wolfbeis, OS (Eds)

Current Research
Nanometrology of molecular dynamics and structure using advanced spectroscopic and microscopic techniques combined with bespoke nano-structured environments. For example, the fluorescence lifetime photophysics of ensembles and single molecules combined with surface enhanced resonance Raman studies to determine dynamical structure and distance as paths towards making molecular nano-movies. This includes characterisation and control of simulated natural environments like hydrated sol-gel nanopores and nanoparticles. By detecting medically important metabolites, such as glucose, proteins, metal ions etc down to the single molecule level under controlled conditions we aim to better understand the fundamental building blocks of biomolecular interaction that underpins life sciences and medicine.

Birch, RB
Rolf Birch
Research Student
University of Strathclyde in Glasgow
1 record

Synthetic diamond for intracavity thermal management in compact solid-state lasers
Millar, P; Birch, RB; Kemp, AJ; Burns, D
IEEE JOURNAL OF QUANTUM ELECTRONICS

Birney, R
Ross Birney
Research Student
University of the West of Scotland
Zero records
**Bishop, M**  
Maria Bishop  
Research Student  
University of Glasgow  
Zero records

**Bitadze, A**  
Alexander Bitadze  
Research Student  
University of Glasgow  
3 records

*The evaporative cooling system for the ATLAS inner detector*  
Attree, D; Anderson, B; Anderssen, EC; Akhnazarov, V; Apsimon, RJ; Barclay, P; *et al.*  
JOURNAL OF INSTRUMENTATION  
Volume: 3 Article Number: P07003 (2008)

*Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors*  
Abate, E; Abdesselam, A; Addy, TN; Akesson, TPA; Allport, PP; Andricek, L; *et al.*  
JOURNAL OF INSTRUMENTATION  
Volume: 3 Article Number: P08003 (2008)

*The ATLAS Experiment at the CERN Large Hadron Collider*  
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; *et al.*  
JOURNAL OF INSTRUMENTATION  
Volume: 3 Article Number: S08003 (2008)

**Blake, R**  
Robert Blake  
Researcher  
The University of Edinburgh  
Zero records

Current Research  
Developing astronomical data analysis systems and maintaining availability of the WFCAM Science Archive.

**Bloomer, E**  
Edward Bloomer  
Research Student  
University of Glasgow  
1 record

*Report on the second Mock LISA data challenge*  
Babak, S; Baker, JG; Benacquista, MJ; Cornish, NJ; Crowder, J; Cutler, C; Larson, SL; *et al.*  
CLASSICAL AND QUANTUM GRAVITY  

**Blue, AJ**  
Andrew Blue  
Researcher  
University of Glasgow  
2 records
Comparison of Methods for Estimating the Conversion Gain of CMOS Active Pixel Sensors
Bohndiek, SE; Blue, A; Clark, AT; Prydderch, ML; Turchetta, R; Royle, GJ; Speller, RD
IEEE SENSORS JOURNAL

Spectral characterisation and noise performance of Vanilla - an active pixel sensor
Blue, A; Bates, R; Bohndiek, SE; Clark, A; Costas, A; Greenshaw, T; Laing, A; et al.
'Proceedings of the 9th International Workshop on Radiation Imaging Detectors', JUL 22-26, 2007, Nuremberg, GERMANY
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-
ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Blythe, RA
Richard Blythe
Academic
The University of Edinburgh
2 records

Reversibility, heat dissipation, and the importance of the thermal environment in stochastic models of nonequilibrium steady states
Blythe, RA
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 1 Article Number: 010601 (2008)

Fixation and Consensus Times on a Network: A Unified Approach
Baxter, GJ; Blythe, RA; McKane, AJ
PHYSICAL REVIEW LETTERS

Current Research
My main research interest is the statistical mechanics of nonequilibrium systems. Specifically, I look at microscopic theories for systems that are driven by their environment, and how one might make predictions for the emergent macroscopic behaviour. I am currently examining whether modelling approaches devised for condensed matter systems can be applied to stochastic effects in biological systems (such as the motion of and interactions between bacteria) and ordering phenomena seen in social systems (such as language or other cultural change).

Bogenstahl, J
Johanna Bogenstahl
Research Student
University of Glasgow
7 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)
Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Hydroxide catalysis bonding of silicon carbide
van Veggel, AA; van den Ende, D; Bogenstahl, J; Rowan, S; Cunningham, W; Gubbels, GHM; Nijmeijer, H
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY

Bonad, I
Isaac Bonad
Research Student
University of Glasgow
Zero records

Bonnell, IA
Ian Bonnell
Academic
University of St Andrews
12 records

A Spitzer survey of young stellar objects in the Rosette Molecular Cloud
Poulton, CJ; Robitaille, TP; Greaves, JS; Bonnell, IA; Williams, JP; Heyer, MH
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Simulations of spiral galaxies with an active potential: molecular cloud formation and gas dynamics
Dobbs, CL; Bonnell, IA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The star formation efficiency and its relation to variations in the initial mass function
Clark, PC; Bonnell, IA; Klessen, RS
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 386 Issue: 1 Pages: 3-10 (2008)
Star formation in the metal-rich Universe
Bonnell, IA
CAMBRIDGE CONTEMPORARY ASTROPHYSICS, Garik Israelian and Georges Meynet (Eds) (2008)

Accretion-driven core collapse and the collisional formation of massive stars
Clarke, CJ; Bonnell, IA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Star formation around supermassive black holes
Bonnell, IA; Rice, WKM
SCIENCE

Gravitational fragmentation and the formation of brown dwarfs in stellar clusters
Bonnell, IA; Clark, P; Bate, MR
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The effect of stellar winds on the formation of a protocluster
Dale, JE; Bonnell, IA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The structure of molecular clouds and the universality of the clump mass function
Smith, RJ; Clark, PC; Bonnell, IA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Competitive accretion and the formation of massive stars
Bonnell, IA
PATHWAYS THROUGH AN ECLECTIC UNIVERSE, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Knapen, JH, Mahoney, TJ, Vazdekis, A (Eds)

Molecular cloud formation and magnetic fields in spiral galaxies
Dobbs, CL; Price, DJ; Bonnell, IA
PATHWAYS THROUGH AN ECLECTIC UNIVERSE, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Knapen, JH, Mahoney, TJ, Vazdekis, A (Eds)

The Conditions for Competitive Accretion
Clark, PC, Klessen, RS, Bonnell, IA; Smith, RJ
'Proceedings of the ASP Conference', SEP 10-14, 2007, Heidelberg, Germany
MASSIVE STAR FORMATION: OBSERVATIONS CONFRONT THEORY, Henrik Beuther, Hendrik Linz, and Thomas Henning (Eds), Astronomical Society of the Pacific

Bookey, HT
Henry Bookey
Researcher
Heriot-Watt University
8 records
Er : Yb-doped oxyfluoride silicate glass waveguide laser fabricated using ultrafast laser inscription
Psaila, ND; Thomson, RR; Bookey, HT; Chiodo, N; Shen, S; Osellame, R; Cerullo, G; Jha, A; Kar, AK
IEEE PHOTONICS TECHNOLOGY LETTERS

Efficient second harmonic generation in femtosecond laser written optical waveguides on periodically poled lithium niobate - art. no. 688112
Osellame, R; Chiodo, N; Lobino, M; Marangoni, M; Cerullo, G; Ramponi, R; Bookey, HT; et al.
'Proceedings of the Conference on Commercial and Biomedical Applications of Ultrafast Lasers VIII', JAN 20-23, 2008, San Jose, CA
COMMERCIAL AND BIOMEDICAL APPLICATIONS OF ULTRAFAST LASERS VIII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Neve, J, Nolte, S, Heisterkamp, A, Schaffer, CB (Eds)

Probing the 1-4(13/2) level lifetime of Er-ions embedded in ultrafast laser inscribed waveguides
Thomson, RR; Psaila, ND; Bookey, HT; Kar, AK; Chiodo, N; Osellame, R; Cerullo, G; Shen, S; Jha, A
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2838-2839 (2008)

Rare-earth oxide doped single and multi-cores heavy metal oxide fibres for lasers and amplifiers
Jha, A; Lousteau, J; Jose, G; Shen, S; Wei, Y; Penty, RV; White, IH; Bookey, HT; Kar, AK
'Proceedings of the 10th International Conference on Transparent Optical Networks', JUN 22-26, 2008, Athens, GREECE
ICTON 2008: PROCEEDINGS OF 2008 10TH ANNIVERSARY INTERNATIONAL CONFERENCE ON TRANSPARENT OPTICAL NETWORKS, VOL 3, Marciniak, M (Eds)
Pages: 252-255 (2008)

Three-core tellurite fiber with multiple rare earth emission
Bookey, HT; Thomson, RP; Psaila, ND; Kar, AK; Lousteau, J; Jha, A; Gayraud, N; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 238-239 (2008)

Ultra Broadband Gain from a Bismuth-doped Glass Waveguide Fabricated Using Ultrafast Laser Inscription
Psaila, N; Thomson, RR; Bookey, HT; Kar, AK; Fujimoto, Y; Nakatsuka, M; Chiodo, N; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2215-2216 (2008)

Ultrafast laser inscription of a three dimensional fan-out device for multicore fiber coupling applications
Thomson, RR; Bookey, HT; Psaila, ND; Fender, A; Campbell, S; Macpherson, WN; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2812-2813 (2008)
Waveguide Fabrication and Supercontinuum Generation in an Ultrafast Laser Inscribed Chalcogenide Glass Waveguide
Psaila, ND; Thomson, RR; Bookey, HT; Kar, AK; Chiodo, N; Osellame, R; Cerullo, G; Shen, S; Jha, A
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 422-423 (2008)

Booth, S
Stephen Booth
Researcher
The University of Edinburgh
Zero records

Current Research
Current research topics include investigations into the interactions between program performance and software engineering techniques such as Object Orientation.; in particular the use of Object Orientation in parallel programs.

Borghi, S
Silvia Borghi
Researcher
University of Glasgow
8 records

Large-angle production of charged pions by 3 GeV/c-12 GeV/c protons on carbon, copper and tin targets
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Robbins, S; Soler, FJP; et al.
EUROPEAN PHYSICAL JOURNAL C
Volume: 53 Issue: 2 Pages: 177-204 (2008)

Experimental study of the atmospheric neutrino backgrounds for p -> e(+)pi(0) searches in water Cherenkov detectors
Mine, S; Alcaraz, JL; Andringa, S; Aoki, S; Argyriades, J; Asakura, K; Ashie, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 3 Article Number: 032003 (2008)

Large-angle production of charged pions by 3-12.9 GeV/c protons on beryllium, aluminium and lead targets
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Soler, FJP; Goessling, C; et al.
EUROPEAN PHYSICAL JOURNAL C
Volume: 54 Issue: 1 Pages: 37-60 (2008)

Absolute momentum calibration of the HARP TPC
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Soler, FJP; Gossling, C; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P04007 (2008)

Large-angle production of charged pions with 3-12.9 GeV/c incident protons on nuclear targets
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Soler, FJP; Gossling, C; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 5 Article Number: 055207 (2008)
Measurement of the production cross-sections of $\pi^{(+/-)}$ in $p-C$ and $\pi^{(+/-)}-C$ interactions at 12 GeV/c
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Robbins, S; Soler, FJP; et al.
ASTROPARTICLE PHYSICS

Measurement of single charged pion production in the charged-current interactions of neutrinos in a 1.3 GeV wide band beam
Rodriguez, A; Whitehead, L; Alcaraz, JL; Andringa, S; Aoki, S; Argyriades, J; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 032003 (2008)

Forward $\pi^{(+/-)}$ production in $p-O-2$ and $p-N-2$ interactions at 12 GeV/c
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Gossling, C; Bunyatov, S; et al.
ASTROPARTICLE PHYSICS

Bowes, D
David Bowes
Research Student
University of Strathclyde in Glasgow
Zero records

Bowles, J
Jennifer Bowles
Research Student
University of Glasgow
Zero records

Bowman, RW
Richard W Bowman
Research Student
University of Glasgow
2 records

Independent polarisation control of multiple optical traps
Preece, D; Keen, S; Botvinick, E; Bowman, R; Padgett, M; Leach, J
OPTICS EXPRESS

A spatial light phase modulator with an effective resolution of 4 mega-pixels
Preece, D; Yao, E; Gibson, G; Bowman, R; Leach, J; Padgett, M
JOURNAL OF MODERN OPTICS

Current Research
My research is in holographic optical tweezers, involving both development of the technology and biological applications. My biological experiments include directly trapping and performing force measurement on single cells. I am also interested in developing fast object tracking with high-speed video cameras, and real-time digital hologram design with graphics cards.

Boyle, P
Peter Boyle
Academic
The University of Edinburgh
8 records
Localization and chiral symmetry in three flavor domain wall QCD
Antonio, DJ; Bowler, KC; Boyle, PA; Christ, NH; Clark, MA; Cohen, SD; Dawson, C; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 014509 (2008)

Neutral-kaon mixing from (2+1)-flavor domain-wall QCD
Antonio, DJ; Boyle, PA; Blum, T; Christ, NH; Cohen, SD; Dawson, C; Izubuchi, T; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 3 Article Number: 032001 (2008)

K\ell^3 semileptonic form factor from (2+1)-flavor lattice QCD
Boyle, PA; Juttner, A; Kenway, RD; Sachrajda, CT; Sasaki, S; Soni, A; Tweedie, RJ; Zanotti, JM
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 14 Article Number: 141601 (2008)

The pion's electromagnetic form factor at small momentum transfer in full lattice QCD
Boyle, PA; Flynn, JM; Juttner, A; Kelly, C; de Lima, HP; Maynard, CM; Sachrajda, CT; Zanotti, JM
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 7 Article Number: 112 (2008)

Use of stochastic sources for the lattice determination of light quark physics
Boyle, PA; Kelly, C; Kenway, RD; Juttner, A
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 8 Article Number: 086 (2008)

Nonperturbative renormalization of quark bilinear operators and B-K using domain wall fermions
Aoki, Y; Boyle, PA; Christ, NH; Dawson, C; Donnellan, MA; Izubuchi, T; Juttner, A; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 054510 (2008)

Proton lifetime bounds from chirally symmetric lattice QCD
Aoki, Y; Boyle, PA; Cooney, P; Del Debbio, L; Kenway, R; Maynard, CM; Soni, A; Tweedie, R
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 054505 (2008)

Physical results from 2+1 flavor domain wall QCD and SU(2) chiral perturbation theory
Allton, C; Antonio, DJ; Aoki, Y; Blum, T; Boyle, PA; Christ, NH; Clark, MA; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 114509 (2008)

Bradford, C
Christine Bradford
Researcher
Heriot-Watt University
4 records

Growth and Characterization of ZnMgS and ZnMgS/ZnSe Quantum Wells grown on GaAs (100) by Using MBE
Bradford, C; Moug, RT; Curran, A; Thuau, D; Warburton, RJ; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY
MBE Growth and Characterization of MgS-Rich Zinc-Blende ZnxMg1-xS1-ySey Alloys
Moug, RT; Bradford, C; Thuau, D; Curran, A; Warburton, RJ; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

Micro-Raman Studies of Zincblende MgS
Wolverson, D; Smith, LC; Bradford, C; Cavenett, BC; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

Surface Reconstructions of Zincblende MgS (100) Observed by Using RHEED
Moug, RT; Bradford, C; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY
Volume: 53 Issue: 5 Pages: 2996-2999 (2008)

Branford, D
Derek Branford
Academic
The University of Edinburgh
15 records

Cross sections and beam asymmetries for (e)over-right-arrowp -> en pi(+) in the nucleon resonance region for 1.7 <= Q(2)<= 4.5 GeV^2
Park, K; Burkert, VD; Kim, W; Aznauryan, IG; Minehart, R; Smith, LC; Joo, K; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 1 Article Number: 015208 (2008)

Bayesian analysis of pentaquark signals from CLAS data
Ireland, DG; McKinnon, B; Protopopescu, D; Ambrozewicz, P; Anghinolfi, M; Asryan, G; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 5 Article Number: 052001 (2008)

Incoherent neutral pion photoproduction on C-12
Tarbert, CM; Watts, DP; Aguar, P; Ahrens, J; Annand, JRM; Arends, HJ; Beck, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 13 Article Number: 132301 (2008)

Measurement of deeply virtual compton scattering beam-spin asymmetries
Girod, FX; Niyazov, RA; Avakian, H; Ball, J; Bedinskii, I; Burkert, VD; De Masi, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 16 Article Number: 162002 (2008)

Measurement of ep -> ep pi(0) beam spin asymmetries above the resonance region
De Masi, R; Garcon, M; Zhao, B; Amaryan, MJ; Ambrozewicz, P; Anghinolfi, M; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 4 Article Number: 042201 (2008)

Polarized structure function sigma(')(LT) for H-1((e)over-right-arrow,e(')K(+))Lambda in the nucleon resonance region
Nasseripour, R; Raue, BA; Carman, DS; Ambrozewicz, P; Amaryan, MJ; Anciant, E; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 6 Article Number: 065208 (2008)
**Light vector mesons in the nuclear medium**
Wood, MH; Nasseripour, R; Weygand, DP; Djalali, C; Tur, C; Mosel, U; Muehlich, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015201 (2008)

**Ratios of N-15/C-12 and He-4/C-12 inclusive electroproduction cross sections in the nucleon resonance region**
Bosted, PE; Fersch, R; Adams, G; Amarian, M; Anefalos, S; Anghinolfi, M; Asryan, G; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015202 (2008)

**Electroproduction of phi(1020) mesons at 1.4 <= Q(2) <= 3.8 GeV2 measured with the CLAS spectrometer**
Santoro, JP; Smith, ES; Garcon, M; Guidal, M; Laget, JM; Weiss, C; Adams, G; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 2 Article Number: 025210 (2008)

**Electroexcitation of the Roper resonance for 1.7 < Q(2)< 4.5 GeV2 in ep -> en pi(+)**
Aznauryan, IG; Burkert, VD; Kim, W; Park, K; Adams, G; Amaryan, MJ; Ambrozetwich, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045209 (2008)

**First measurement of target and double spin asymmetries for ep -> ep pi(0) in the nucleon resonance region above the Delta(1232)**
Biselli, AS; Burkert, VD; Amaryan, MJ; Asryan, G; Avakian, H; Bagdasaryan, H; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045204 (2008)

**Disc DIRC endcap detector for PANDA@FAIR**
Schonmeier, P; Branford, D; Duren, M; Ehrenfried, M; Eyrich, W; Fohl, K; Hoek, M; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

**Radiation hardness study on fused silica**
Hoek, M; Bennet, ED; Branford, D; Cowie, EN; Duren, M; Fohl, K; Glazier, D; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

**The barrel DIRC of the PANDA experiment**
Schwarz, C; Bettoni, D; Branford, D; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

**The DIRC detectors of the (P)over-barANDA experiment at FAIR**
Fohl, K; Bettoni, D; Branford, D; Britting, A; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
Breitmoser, E
Elena Breitmoser
Researcher
The University of Edinburgh
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Brenner, C
Ceri Brenner
Research Student
University of Strathclyde in Glasgow
Zero records

Britton D
David Britton
Academic
University of Glasgow
2 records

The CMS experiment at the CERN LHC
Chatrchyan, S; Hmayakyan, G; Khachatryan, V; Sirunyan, AM; Adam, W; Bauer, T; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08004 (2008)

Intercalibration of the barrel electromagnetic calorimeter of the CMS experiment at start-up
Adzic, P; Alemany-Fernandez, R; Almeida, N; Anagnostou, G; Andelin, D; Anfreville, M; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P10007 (2008)

Brougham, T
Thomas Brougham
Research Student
University of Strathclyde in Glasgow
Zero records

Brown, CTA
Tom Brown
Academic
University of St Andrews
8 records

Enhanced operation of femtosecond lasers and applications in cell transfection
Brown, CTA; Stevenson, DJ; Tsampoula, X; McDougall, C; Lagatsky, AA; Sibbett, W; et al.
JOURNAL OF BIOPHOTONICS
Volume: 1 Issue: 3 Pages: 183-199 (2008)

Femtosecond pulse generation around 1500nm using a GaInNAsSb SESAM
Metzger, NK; Leburn, CG; Lagatsky, AA; Brown, CTA; Calvez, S; Burns, D; Sun, HD; et al.
OPTICS EXPRESS

Spectroscopic and lasing performance of Tm3+-doped bulk TZN and TZNG tellurite glasses operating around 1.9 mu m
Fusari, F; Lagatsky, AA; Richards, B; Jha, A; Sibbett, W; Brown, CTA
OPTICS EXPRESS
GaInNAs(Sb) surface normal devices
Calvez, S; Laurand, N; Sun, HD; Weda, J; Burns, D; Dawson, MD; Harkonen, A; et al.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, WILEY-V C H VERLAG GMBH

Enhanced optical micromanipulation and transfection of cells using femtosecond lasers.
Brown, CTA; Tsampoula, X; Stevenson, D; McDougall, C; Gunn-Moore, FJ; Dholakia, K
'Proceedings of the IEEE/LEOS Summer Topical Meetings', JUL 21-23, 2008, Acapulco, MEXICO
2008 DIGEST OF THE LEOS SUMMER TOPICAL MEETINGS, Digest of the LEOS Summer Topical Meetings
Volume: Pages: 75-76 (2008)

Femtosecond cellular transfection using a non-diffracting beam - art. no. 68541L
Tsampoula, X; Garces-Chavez, V; Comrie, M; Stevenson, DJ; Agate, B; Brown, CTA; et al.
'Proceedings of the Conference on Optical Interactions with Tissue and Cells XIX', JAN 21-23, 2008, San Jose, CA
OPTICAL INTERACTIONS WITH TISSUE AND CELLS XIX, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Jacques, SL, Roach, WP, Thomas, RJ (Eds)

Femtosecond pulse generation at 1530nm using a GaInNAsSb SESAM
Leburn, CG; Metzger, NK; Brown, CT; Sibbett, W; Calvez, S; Burns, D; Sun, HD; et al.
'Proceedings of the Conference on Lasers and Electro-Optics (CLEO)', MAY 4, 2008, San Jose, California, USA
LASERS AND ELECTRO-OPTICS CONFERENCE 2008
Volume: 1-10 (2008)

High-power Kerr-lens mode-locked ytterbium lasers - art. no. 68712L
Bain, FM; Lagatsky, AA; Brown, CTA; Sibbett, W
SOLID STATE LASERS XVII: TECHNOLOGY AND DEVICES, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkson, WA, Hodgson, NH, Shori, RK (Eds)

Brown, G
Graeme Brown
Researcher
Heriot-Watt University
Zero records

Brown, I
Ian Brown
Research Student
University of Strathclyde in Glasgow
1 record

Scattering error corrections for in situ absorption and attenuation measurements
Mckee, D; Piskozub, J; Brown, I
OPTICS EXPRESS
Volume: 16 Issue: 24 Pages: 19480-19492 (2008)
Brown, JC
John Brown
Academic
University of Glasgow
6 records

XMM-Newton X-ray study of early type stars in the Carina OB1 association
Antokhin, II; Rauw, G; Vreux, JM; van der Hucht, KA; Brown, JC
ASTRONOMY & ASTROPHYSICS

X-ray emission from magnetically torqued disks of Oe/Be stars
Li, Q; Cassinelli, JP; Brown, JC; Waldron, WL; Miller, NA
ASTROPHYSICAL JOURNAL
Volume: 672 Issue: 2 Pages: 1174-1182 (2008)

Non-thermal recombination - a neglected source of flare hard X-rays and fast electron diagnostic
Brown, JC; Mallik, PCV
ASTRONOMY & ASTROPHYSICS

Fast spectral fitting of hard X-ray bremsstrahlung from truncated power-law electron spectra
Brown, JC; Kasparova, J; Massone, AM; Piana, M
ASTRONOMY & ASTROPHYSICS
Volume: 486 Issue: 3 Pages: 1023-1029 (2008)

RHESSI microflares: II. Implications for loop structure and evolution
Stoiser, S; Brown, JC; Veronig, AM
SOLAR PHYSICS

MAGNETICALLY FED HOT STAR KEPLERIAN DISKS WITH SLOW OUTFLOW
Brown, JC; Cassinelli, JP; Maheswaran, M
ASTROPHYSICAL JOURNAL

Brown, R
Ronal Brown
Academic
University of Strathclyde in Glasgow
Zero records

Brown, S
Spyros Brown
Research Student
Heriot-Watt University
Zero records

Browne, PG
Paul Browne
Research Student
University of St Andrews
Zero records
Bruce, G
Graham Bruce
Research Student
University of St Andrews
Zero records

Bruin, J
Jan Bruin
Research Student
University of St Andrews
Zero records

Brunetti, E
Enrico Brunetti
Researcher
University of Strathclyde in Glasgow
4 records

_A compact synchrotron radiation source driven by a laser-plasma wakefield accelerator_
Schlenvoigt, HP; Haupt, K; Debus, A; Budde, F; Jackel, O; Pfotenhauer, S; Schoerer, H; et al.
NATURE PHYSICS

_Quantum path contribution to high-order harmonic spectra_
Brunetti, E; Issac, R; Jaroszynski, DA
PHYSICAL REVIEW A
Volume: 77 Issue: 2 Article Number: 023422 (2008)

_Laser-driven acceleration of electrons in a partially ionized plasma channel_
Rowlands-Rees, TP; Kamperidis, C; Kneip, S; Gonsalves, AJ; Mangles, SPD; Gallacher, JG; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 10 Article Number: 105005 (2008)

_Synchrotron radiation from laser-accelerated monoenergetic electrons_
Schlenvoigt, HP; Haupt, K; Debus, A; Budde, F; Jaeckel, O; Pfotenhauer, S; et al.
IEEE TRANSACTIONS ON PLASMA SCIENCE

Brunner, D
Daniel Brunner
Research Student
Heriot-Watt University
2 records

_Optical pumping of a single hole spin in a quantum dot_
Gerardot, BD; Brunner, D; Dalgarno, PA; Ohberg, P; Seidl, S; Kroner, M; Karrai, K; et al.
NATURE

_Hole recapture limited single photon generation from a single n-type charge-tunable quantum dot_
Dalgarno, PA; McFarlane, J; Brunner, D; Lambert, RW; Gerardot, BD; Warburton, RJ; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 19 Article Number: 193103 (2008)
Buczynski, R
Ryszard Buczynski
Researcher
Heriot-Watt University
4 records

Linear and nonlinear properties of multicomponent glass photonic crystal fibers
Lorenc, D; Bugar, I; Aranyosiova, M; Buczynski, R; Pysz, D; Velic, D; Chorvat, D
LASER PHYSICS
Volume: 18 Issue: 3 Pages: 270-276 (2008)

Higher-order mode investigations by intermodal interference in a dual-core photonic crystal fiber
Koys, M; Bugar, I; Lorenc, D; Buczynski, R; Pysz, D; Uherek, F
LASER PHYSICS
Volume: 18 Issue: 10 Pages: 1153-1158 (2008)

Nonlinear refractive index of multicomponent glasses designed for fabrication of photonic crystal fibers
Lorenc, D; Aranyosiova, M; Buczynski, R; Stepien, R; Bugar, I; Vincze, A; Velic, D
APPLIED PHYSICS B-LASERS AND OPTICS

Polarization-Controlled Dispersive Wave Redirection in Dual-Core Photonic Crystal Fiber
Bugar, I; Fedotov, IV; Fedotov, AB; Koys, M; Buczynski, R; Pysz, D; Chlpik, J; Uherek, F; Zheltikov, AM
LASER PHYSICS
Volume: 18 Issue: 12 Pages: 1420-1428 (2008)

Buehler, SA
Sarah Buehler
Research Student
The University of Edinburgh
Zero records

Bull, CL
Craig Bull
Researcher
The University of Edinburgh
1 record

Feasibility of in situ neutron diffraction studies of non-crystalline silicates up to pressures of 25 GPa
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JOURNAL OF PHYSICS-CONDENSED MATTER
Volume: 20 Issue: 24 Article Number: 244122 (2008)

Bull, M
Mark Bull
Researcher
The University of Edinburgh
Zero records
Buller, GS
Gerald Buller
Academic
Heriot-Watt University
4 records

The role of transport processes of nonequilibrium charge carriers in radiative properties of arrays of InAs/GaAs quantum dots
Shkolnik, AS; Savelyev, AV; Karachinsky, LY; Gordew, NY; Seisyan, RP; Zegrya, GG; et al.
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A photon-counting time-of-flight ranging technique developed for the avoidance of range ambiguity at gigahertz clock rates
Hiskett, PA; Parry, CS; McCarthy, A; Buller, GS
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Fourier relationship between the angle and angular momentum of entangled photons
Jha, AK; Jack, B; Yao, E; Leach, J; Boyd, RW; Buller, GS; Barnett, SM; Franke-Arnold, S; Padgett, MJ
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Volume: 78 Issue: 4 Article Number: 043810 (2008)

Time-of-flight sensing using time-correlated single-photon counting - art. no. 69001C
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Burge, C
Christina Burge
Research Student
University of Glasgow
Zero records

Burnham, DR
Daniel Burnham
Research Student
University of St Andrews
5 records

Trapping solid aerosols with optical tweezers: A comparison between gas and liquid phase optical traps
Summers, MD; Burnham, DR; McGloin, D
OPTICS EXPRESS
Volume: 16 Issue: 11 Pages: 7739-7747 (2008)

Phase dynamics of continuous topological upconversion in vortex beams
Lopez-Mariscal, C; Burnham, D; Rudd, D; McGloin, D; Gutierrez-Vega, JC
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Thermocapillary manipulation of droplets using holographic beam shaping: Microfluidic pin ball
Cordero, ML; Burnham, DR; Baroud, CN; McGloin, D
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Burns, D
David Burns
Researcher
University of Strathclyde in Glasgow
16 records

High-power, (AlGaIn)(AsSb) semiconductor disk laser at 2.0 μm
Hopkins, JM; Hempler, N; Rosener, B; Schulz, N; Rattunde, M; Manz, C; Kohler, K; Wagner, J; Burns, D
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Continuous tuning and efficient intracavity second-harmonic generation in a semiconductor disk laser with an intracavity diamond heatspreader
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Enhancement of laser performance using an intracavity deformable membrane mirror
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Millar, P; Birch, RB; Kemp, AJ; Burns, D
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Femtosecond pulse generation around 1500nm using a GaInNAsSb SESAM
Metzger, NK; Leburn, CG; Lagatsky, AA; Brown, CTA; Calvez, S; Burns, D; Sun, HD; et al.
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GaInNAs(Sb) surface normal devices
Calvez, S; Laurand, N; Sun, HD; Weda, J; Burns, D; Dawson, MD; Harkonen, A; et al.
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5W Mid-IR Optically-pumped Semiconductor Disk Laser
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Comparison of thermal management techniques for semiconductor disk lasers - art. no. 687115
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Burns, J
Jonathan Burns
Research Student
University of Glasgow
3 records

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Airapetian, A; Akopov, N; Akopov, Z; Aschenauer, EC; Augustyniak, W; Avetissian, A; et al.
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Burrows, C
Christopher Burrows
Research Student
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Zero records
First observation of the decay $B_s(0) \rightarrow D_s^- D_s^+$ and measurement of its branching ratio
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Volume: 100 Issue: 8 Article Number: 082001 (2008)

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Search for heavy, long-lived neutralinos that decay to photons at CDF II using photon timing
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Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
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Deep inelastic inclusive and diffractive scattering at $Q^2$ values from 25 to 320 GeV$^2$ with the ZEUS forward plug calorimeter
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
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Measurement of the inclusive jet cross section at the Fermilab Tevatron $p(\overline{p})$ collider using a cone-based jet algorithm
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 052006 (2008)

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Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
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Volume: 78 Issue: 7 Article Number: 072001 (2008)
Measurement of b-jet shapes in inclusive jet production in p \(\overline{p}\) collisions at \(\sqrt{s}=1.96\) TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 072005 (2008)

Search for Large Extra Dimensions in Final States Containing One Photon or Jet and Large Missing Transverse Energy Produced in \(pp\) Collisions at \(s=1.96\) TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW LETTERS

Forward-Backward Asymmetry in Top-Quark Production in \(p(p)\overline{p}\) Collisions at root \(s=1.96\) TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
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Volume: 101 Issue: 20 Article Number: 202001 (2008)

Search for the Flavor-Changing Neutral-Current Decay \(t\rightarrow Zq\) in \(pp\) Collisions at \(s=1.96\) TeV
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First measurement of the fraction of top-quark pair production through gluon-gluon fusion
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Volume: 78 Issue: 11 Article Number: 111101 (2008)

Measurement of the Single-Top-Quark Production Cross Section at CDF
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PHYSICAL REVIEW LETTERS

Search for Supersymmetry in \(p(p)\overline{p}\) Collisions at root \(s=1.96\) TeV Using the Trilepton Signature for Chargino-Neutralino Production
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Alvarez Gonzalez, B; Amerio, S; et al.
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Search for the Higgs Boson Produced in Association with \(Z\rightarrow l^+l^-\) in \(p(p)\overline{p}\) Collisions at root \(s=1.96\) TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Alvarez Gonzalez, B; Amerio, S; et al.
PHYSICAL REVIEW LETTERS

Jets in Photoproduction at HERA
Bussey, PJ
NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS
Current Research
My research has been in three areas: I lead the Glasgow ZEUS team at the DESY laboratory in Hamburg. ZEUS is in the process of analysing the complete dataset taken with HERA II. The Glasgow team, in collaboration with physicists from Oxford and Kiev is engaged in a programme of prompt photon analyses. On the CDF experiment, I am working with the rest of the Glasgow group and with other physicists from CDF, in particular from the university of Chicago, in searches for different kinds of Higgs boson. On the ATLAS-FP project, I am working with other UK teams and other ATLAS teams to mount an addition to the existing ATLAS detector in which we shall tag forward scattered protons using new silicon detector installations. This will give us further opportunities to study the Higgs and other new particles should they exist.

Butler, M
Michael Butler
Research Student
University of the West of Scotland
Zero records

Current Research
My research investigates the relationship between chemical structure, the modal properties of biomacromolecules and high frequency ultrasound. Although primarily focussing upon uncovering nanoscale biophysical relationships, the work provides a possible framework for better understanding mechanical sensing and structuring in evolutionary and developmental cell biology.

Buttar, CM
Craig Buttar
Academic
University of Glasgow
7 records

Engineering for the ATLAS SemiConductor Tracker (SCT) end-cap
Abdesselam, A; Allport, PP; Anderson, B; Andricek, L; Anghinolfi, F; Apsimon, RJ; et al.
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Sopczak, A; Aoulmit, S; Bekhouche, K; Bowdery, C; Buttar, C; Damerell, C; Davies, G; et al.
JOURNAL OF INSTRUMENTATION
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Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors
Abate, E; Abdesselam, A; Addy, TN; Akesson, TPA; Allport, PP; Andricek, L; et al.
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Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
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The integration and engineering of the ATLAS SemiConductor Tracker Barrel
Abdesselam, A; Allport, PP; Anastopoulos, C; Anderson, B; Andricek, L; Anghinolfi, F; et al.
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Lithium-drifted silicon for harsh radiation environments
Grant, J; Buttar, C; Brozel, M; Keffous, A; Cheriet, A; Bourenane, K; Bourenane, A; et al.
'Proceedings of the 9th International Workshop on Radiation Imaging Detectors', JUL 22-26, 2007, Nuremberg, GERMANY
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Lithium-drifted, silicon radiation detectors for harsh radiation environments
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'Proceedings of the 12th International Conference on Defects-Recognition, Imaging and Physics in Semiconductors', SEP 09-13, 2007, Berlin, GERMANY
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SPRINGER
Volume: 19 Pages: S14-S18 (2008)

Calvez, S
Stephane Calvez
Researcher
University of Strathclyde in Glasgow
12 records

Continuous tuning and efficient intracavity second-harmonic generation in a semiconductor disk laser with an intracavity diamond heatspreader
Maclean, AJ; Kemp, AJ; Calvez, S; Kim, JY; Kim, T; Dawson, MD; Burns, D
IEEE JOURNAL OF QUANTUM ELECTRONICS

Short-wavelength GaInNAs/GaAs semiconductor disk lasers
Vetter, SL; Hastie, JE; Korpijarvi, VM; Puustinen, J; Guina, M; Okhotnikov, O; Calvez, S; Dawson, MD
ELECTRONICS LETTERS
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Quantum-well intermixing influence on GaInNAs/GaAs quantum-well laser gain: theoretical study
Qiu, YN; Sun, HD; Rorison, JM; Calvez, S; Dawson, MD; Bryce, AC
SEMICONDUCTOR SCIENCE AND TECHNOLOGY
Volume: 23 Issue: 9 Article Number: 095010 (2008)

Array-Format Microchip Semiconductor Disk Lasers
Laurand, N; Lee, CL; Gu, E; Hastie, JE; Kemp, AJ; Calvez, S; Dawson, MD
IEEE JOURNAL OF QUANTUM ELECTRONICS

Femtosecond pulse generation around 1500nm using a GaInNAsSb SESAM
Metzger, NK; Leburn, CG; Lagatsky, AA; Brown, CTA; Calvez, S; Burns, D; Sun, HD; et al.
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GaInNAs(Sb) surface normal devices
Calvez, S; Laurand, N; Sun, HD; Weda, J; Burns, D; Dawson, MD; Harkonen, A; et al.
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PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, WILEY-V C H VERLAG GMBH
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Schlosser, P; Calvez, S; Hastie, JE; Jin, SR; Germann, TD; Strittmatter, A; et al.
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Characteristics of GaInNAsSb/GaAs VCSELs operating near 1.55um - art. no. 69080E
Gupta, JA; Calvez, S; Laurand, N; Weda, J; Burns, D; Poitru, D; Aers, GC; Dawson, MD
VERTICAL-CAVITY SURFACE-EMITTING LASERS XII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Lei, C, Guenter, JK (Eds)

Comparison of thermal management techniques for semiconductor disk lasers - art. no. 687115
Giet, S; Kemp, AJ; Burns, D; Calvez, S; Dawson, MD; Suomalainen, S; Harkonen, A; et al.
SOLID STATE LASERS XVII: TECHNOLOGY AND DEVICES, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkson, WA, Hodgson, NH, Shori, RK (Eds), SPIE-INT SOC OPTICAL ENGINEERING

Efficiency and Beam Quality Analysis of a Semiconductor Disk Laser
Roth, P; Maclean, AJ; Kemp, AJ; Calvez, S; Dawson, MD; Burns, D
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 1806-1807 (2008)

Longitudinal Mode Selection in a Fiber-Coupled Microlensed Microchip VECSEL
Laurand, N; Lee, CL; Gu, E; Calvez, S; Dawson, MD
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 2243-2244 (2008)

Short-wavelength GaInNAs semiconductor disk lasers
Calvez, S; Hastie, JE; Vetter, SL; Dawson, MD; Korpiljavi, VM; Puustinen, J; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 1802-1803 (2008)
Current Research
Stephane is Associate Team Leader (full lecturer equivalent) at the Institute of Photonics. He graduated in Optics and Optoelectronics in 1998 from the Ecole Nationale Superieure de Physique de Marseille (ENSPM, Marseille, France) and received his PhD in June 2002 from the Université de Franche Comté for his work on fibre lasers and lithium niobate integrated optics. He joined the Institute of Photonics in December 2000 where his primary research interests focus on novel semiconductor materials, vertical cavity devices and their applications. He is the Chair of the Scottish Chapter of IEEE/LEOS and was Vice Chair in 2005-2007.

Cameron, AC
Andrew Cameron
Academic
University of St Andrews
17 records

The stable magnetic field of the fully convective star V374 Peg
Morin, J; Donati, JF; Forveille, T; Delfosse, X; Dobler, W; Petit, P; Jardine, MM; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 384 Issue: 1 Pages: 77-86 (2008)

SuperWASP-N extrasolar planet candidates from fields 06(h) < RA < 16(h)
Kane, SR; Clarkson, WI; West, RG; Wilson, DM; Christian, DJ; Cameron, AC; Enoch, B; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The on/off nature of star-planet interactions
Shkolnik, E; Bohlender, DA; Walker, GAH; Cameron, AC
ASTROPHYSICAL JOURNAL

WASP-4b: A 12th magnitude transiting hot Jupiter in the southern hemisphere
Wilson, DM; Gillon, M; Hellier, C; Maxted, PFL; Pepe, F; Queloz, D; Anderson, DR; et al.
ASTROPHYSICAL JOURNAL LETTERS

Doppler images and chromospheric variability of TWA 6
Skelly, MB; Unruh, YC; Cameron, AC; Barnes, JR; Donati, JF; Lawson, WA; Carter, BD
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Magnetic cycles of the planet-hosting star tau Bootis
Donati, JF; Moutou, C; Fares, R; Bohlender, D; Catala, C; Deleuil, M; Shkolnik, E; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

WASP-3b: a strongly irradiated transiting gas-giant planet
Pollacco, D; Skillen, I; Cameron, AC; Loeillet, B; Stempels, HC; Bouchy, F; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Magnetospheric accretion on the T Tauri star BP Tauri
Donati, JF; Jardine, MM; Gregory, SG; Petit, P; Paletou, F; Bouvier, J; Dougados, C; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 386 Issue: 3 Pages: 1234-1251 (2008)
The first magnetic maps of a pre-main-sequence binary star system - HD 155555
Dunstone, NJ; Hussain, GAJ; Cameron, AC; Marsden, SC; Jardine, M; Stempels, HC; Vlez, JCR; Donati, JF
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

WASP-5b: a dense, very hot Jupiter transiting a 12th-mag Southern-hemisphere star
Anderson, DR; Gillon, M; Hellier, C; Maxted, PFL; Pepe, F; Queloz, D; Wilson, DM; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 387 Issue: 1 Pages: L4-L7 (2008)

Differential rotation on both components of the pre-main-sequence binary system HD 155555
Dunstone, NJ; Hussain, GAJ; Cameron, AC; Marsden, SC; Jardine, M; Barnes, JR; Velez, JCR; Donati, JF
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

BD -22 5866: A low-mass, quadruple-lined spectroscopic and eclipsing binary
Shkolnik, E; Liu, MC; Reid, IN; Hebb, L; Cameron, AC; Torres, CA; Wilson, DM
ASTROPHYSICAL JOURNAL

Reflected light from 3D exoplanetary atmospheres and simulation of HD 209458b (p 257-269)
Hood, B; Wood, K; Seager, S; Cameron, AC
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Transiting exoplanets from the CoRoT space mission - IV. CoRoT-Exo-4b: a transiting planet in a 9.2 day synchronous orbit
Aigrain, S; Cameron, AC; Ollivier, M; Pont, F; Jorda, L; Almenara, JM; Alonso, R; et al.
ASTRONOMY & ASTROPHYSICS

HD 179949b: a close orbiting extrasolar giant planet with a stratosphere?
Barnes, JR; Barman, TS; Jones, HRA; Leigh, CJ; Cameron, AC; Barber, RJ; Pinfield, DJ
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 390 Issue: 3 Pages: 1258-1266 (2008)

Radio emission from exoplanets: the role of the stellar coronal density and magnetic field strength
Jardine, M; Cameron, AC
ASTRONOMY & ASTROPHYSICS

Transiting exoplanets from the CoRoT space mission VI. CoRoT-Exo-3b: the first secure inhabitant of the brown-dwarf desert
Deleuil, M; Deeg, HJ; Alonso, R; Bouchy, F; Rouan, D; Auvergne, M; Baglin, A; et al.
ASTRONOMY & ASTROPHYSICS
Volume: 491 Issue: 3 Pages: 889-897 (2008)

Cameron, I
Ian Cameron
Academic
Heriot-Watt University
Zero records
Campbell, J
Geppo Cagnoli
Researcher
University of Glasgow
1 record

_Upsilon Production at Fermilab Tevatron and LHC Energies_
Artoisenet, P; Campbell, J; Lansberg, JP; Maltoni, F; Tramontano, F
PHYSICAL REVIEW LETTERS

Campbell, L
Lawrence Campbell
Research Student
University of Strathclyde in Glasgow
Zero records

Campbell, M
Murray Campbell
Academic
The University of Edinburgh
3 records

_Mechanical response measurements of real and artificial brass players lips_
Newton, MJ; Campbell, M; Gilbert, J
JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA

_A simulation tool for brassiness studies (L)_
Gilbert, J; Menguy, L; Campbell, M
JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA

_Suitability of laser Doppler velocimetry for the calibration of pressure microphones_
Degroot, A; MacDonald, R; Richoux, O; Gazengel, B; Campbell, M
APPLIED ACOUSTICS

Current Research
Current research in musical acoustics at the University of Edinburgh is focused on the behaviour of musical wind instruments, with particular emphasis on localised and distributed nonlinear phenomena in woodwind and brass instruments. In collaboration with the Edinburgh University Collection of Historic Musical Instruments, acoustical measurement techniques are being developed and applied to the study of the historical evolution and taxonomy of brass instruments. The extent to which an organist can control transients in mechanical action pipe organ playing is under investigation. Modelling and optimisation of wind instruments is also an active area of research.

Campbell, MA
Michael Campbell
Research Student
The University of Edinburgh
1 record
Imaging the dense stellar cluster R136 with VLT-MAD - art. no. 70152C
Campbell, MA; Evans, CJ; Ascenso, J; Longmore, AJ; Kolb, J; Gieles, M; Alves, J
ADAPTIVE OPTICS SYSTEMS, PTS 1-3, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Hubin, N, Max, CE, Wizinowich, PL (Eds)
Volume: 7015 Pages: C152-C152 (2008)

Campbell, S
Scott Campbell
Research Student
University of Strathclyde in Glasgow
Zero records

Campbell-Dalgano, H
Heather Campbell-Dalgano
Researcher
Heriot-Watt University
Zero records

CamposZatarain, A
Alberto CamposZatarain
Research Student
Heriot-Watt University
Zero records

Campsie, PJ
Paul Campsie
Research Student
University of Glasgow
Zero records

Carnegie, DJ
David Carnegie
Research Student
University of St Andrews
1 record

Guided neuronal growth using optical line traps
Carnegie, DJ; Stevenson, DJ; Mazilu, M; Gunn-Moore, F; Dholakia, K
OPTICS EXPRESS

Carozzi, T
Tobia Carozzi
Researcher
University of Glasgow
Zero records

Carozzi, TD
Tobia Carozzi
Researcher
University of Glasgow
Zero records
Carrington, J
James Carrington
Research Student
The University of Edinburgh
Zero records

Carroll, DC
David Carroll
Research Student
University of Strathclyde in Glasgow
5 records

*Active steering of laser-accelerated ion beams*
Lundh, O; Glinec, Y; Homann, C; Lindau, F; Persson, A; Wahlstrom, CG; Carroll, DC; McKenna, P
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 1 Article Number: 011504 (2008)

*Nuclear activation as a high dynamic range diagnostic of laser-plasma interactions*
Clarke, RJ; Simpson, PT; Kar, S; Green, JS; Bellei, C; Carroll, DC; Dromey, B; *et al.*
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

*Dynamic control of laser-produced proton beams*
Kar, S; Markey, K; Simpson, PT; Bellei, C; Green, JS; Nagel, SR; Kneip, S; *et al.*
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 10 Article Number: 105004 (2008)

*Effects of front surface plasma expansion on proton acceleration in ultraintense laser irradiation of foil targets*
McKenna, P; Carroll, DC; Lundh, O; Nurnberg, F; Markey, K; Bandyopadhyay, S; *et al.*
LASER AND PARTICLE BEAMS

*Effects of laser prepulse on proton generation: active manipulation of the distribution of laser accelerated proton beams*
Batani, D; Redaelli, R; Dezulian, R; Lundh, O; Lindau, F; Persson, A; Osvay, K; *et al.*
LASER DRIVEN RELATIVISTIC PLASMAS APPLIED FOR SCIENCE, INDUSTRY, AND MEDICINE, AIP CONFERENCE PROCEEDINGS, Bulanov, SV, Daido, H (Eds)

Carruthers, AE
Toni Carruthers
Researcher
University of St Andrews
3 records

*A dual beam photonic crystal fiber trap for microscopic particles*
Gherardi, DM; Carruthers, AE; Cizmar, T; Wright, EM; Dholakia, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 4 Article Number: 041110 (2008)
Optical micromanipulation using supercontinuum Laguerre-Gaussian and Gaussian beams
Morris, JE; Carruthers, AE; Mazilu, M; Reece, PJ; Cizmar, T; Fischer, P; Dholakia, K
OPTICS EXPRESS

Novel dual beam fiber traps using endlessly single-mode photonic crystal fiber - art. no. 703828
Gherardi, DM; Carruthers, AE; Cizmar, T; Marchington, RF; Dholakia, K
OPTICAL TRAPPING AND OPTICAL MICROMANIPULATION V, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Dholakia, K, Spalding, GC (Eds)

Carson, L
Laurence Carson
Research Student
University of Glasgow
1 record

The LHCb Detector at the LHC
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08005 (2008)

Carter, A
Adam Carter
Researcher
The University of Edinburgh
Zero records

Carter, R
Richard Carter
Research Student
Heriot-Watt University
Zero records

Casey, MM
Morag Casey
Academic
University of Glasgow
4 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)
Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Cassettari, D
Donatella Cassettari
Academic
University of St Andrews
Zero records

Cates, ME
Mike Cates
Academic
The University of Edinburgh
9 records

Singular forces and pointlike colloids in lattice Boltzmann hydrodynamics
Nash, RW; Adhikari, R; Cates, ME
PHYSICAL REVIEW E
Volume: 77 Issue: 2 Article Number: 026709 (2008)

Dynamic scaling of desert dunes
Fischer, S; Cates, ME; Kroy, K
PHYSICAL REVIEW E
Volume: 77 Issue: 3 Article Number: 031302 (2008)

Statistical mechanics of interacting run-and-tumble bacteria
Tailleur, J; Cates, ME
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 21 Article Number: 218103 (2008)

Arrest of fluid demixing by nanoparticles: A computer simulation study
Kim, E; Stratford, K; Adhikari, R; Cates, ME
LANGMUIR

Shearing active gels close to the isotropic-nematic transition
Cates, ME; Fielding, SM; Marenduzzo, D; Orlandini, E; Yeomans, JM
PHYSICAL REVIEW LETTERS

First-principles constitutive equation for suspension rheology
Brader, JM; Cates, ME; Fuchs, M
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 13 Article Number: 138301 (2008)

Bijels: a new class of soft materials
Cates, ME; Clegg, PS
SOFT MATTER
Lattice Boltzmann simulations of spontaneous flow in active liquid crystals: The role of boundary conditions
Marenduzzo, D; Orlandini, E; Cates, ME; Yeomans, JM
'Proceedings of the International Workshop on Mesoscale and Multiscale Description of Complex Fluids', JUL 05-08, 2006, Prato, ITALY
JOURNAL OF NON-NEWTONIAN FLUID MECHANICS

Hydrodynamic of Active Liquid Crystals: A Hybrid Lattice Boltzmann Approach
Orlandini, E; Cates, ME; Marenduzzo, D; Tubiana, L; Yeomans, JM
MOLECULAR CRYSTALS AND LIQUID CRYSTALS
Volume: 494 Pages: 293-308 (2008)

Chaimayo, W
Wanaruk Chaimayo
Research Student
The University of Edinburgh
Zero records

Chalkley, E
Eleanor Chalkley
Research Student
University of Glasgow
9 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS
Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Chapman, JN
John Chapman
Academic
University of Glasgow
9 records

Comment on "Three-Dimensional, Spin-Resolved Structure of Magnetic Vortex and Antivortex States in Patterned Co Films Using Scanning Ion Microscopy with Polarization Analysis"
Bode, M; Pietzsch, O; Kubetzka, A; Wulfhekel, W; McGrouther, D; McVitie, S; Chapman, JN
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 2 Article Number: 029703 (2008)

Interface induced uniaxial magnetic anisotropy in amorphous CoFeB films on AlGaAs(001)
Hindmarch, AT; Kinane, CJ; MacKenzie, M; Chapman, JN; Henini, M; Taylor, D; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 11 Article Number: 117201 (2008)

Direct observation of domain wall structures in curved permalloy wires containing an antinotch
Sandweg, CW; Wiese, N; McGrouther, D; Hermsdoerfer, SJ; Schultheiss, H; Leven, B; et al.
JOURNAL OF APPLIED PHYSICS
Volume: 103 Issue: 9 Article Number: 093906 (2008)

Magnetization processes in single-layer and laminated CoFe films patterned into multiscale elements with write-head-like geometries
Kong, X; McVitie, S; Chapman, JN; Weaver, JMR; O'Donnell, DO; Johnston, AB
JOURNAL OF APPLIED PHYSICS
Volume: 104 Issue: 1 Article Number: 013925 (2008)

Origins of ferromagnetism in transition-metal doped Si
Ko, V; Teo, KL; Liew, T; Chong, TC; MacKenzie, M; MacLaren, I; Chapman, JN
JOURNAL OF APPLIED PHYSICS
Volume: 104 Issue: 3 Article Number: 033912 (2008)

62
Microstructure of precipitates and magnetic domain structure in an annealed Co38Ni33Al29 shape memory alloy
Bartova, B; Wiese, N; Schryvers, D; Chapman, JN; Ignacova, S
ACTA MATERIALIA

Direct observation of changes to domain wall structures in magnetic nanowires of varying width
O'Shea, KJ; McVitie, S; Chapman, JN; Weaver, JMR
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 20 Article Number: 202505 (2008)

Growth of GaN by metal organic vapor phase epitaxy on ZnO-buffered c-sapphire substrates
Ougazzaden, A; Rogers, DJ; Teherani, FH; Moudakir, T; Gautier, S; Aggerstam, T; et al.
JOURNAL OF CRYSTAL GROWTH, ELSEVIER SCIENCE BV

Easy axis magnetization reversal in cobalt antidot arrays
Mengotti, E; Heyderman, LJ; Nolting, F; Craig, BR; Chapman, JN; Lopez-Diaz, L; et al.
'Proceedings of the 52nd Annual Conference on Magnetism and Magnetic Materials', NOV 05-09, 2007, Tampa, FL
JOURNAL OF APPLIED PHYSICS, AMER INST PHYSICS
Volume: 103 Issue: 7 Article Number: 07D509 (2008)

Current Research
My research centres around nanoscience, with particular emphasis on high spatial resolution characterisation and property modification using electron and ion beams. My interest is stimulated by the new physics that emerges at ultra-small length scales. While primarily a physicist, I lead collaborations with materials scientists, chemists and electronic engineers. I study magnetic materials extensively and have made major contributions to magnetic sensor and storage technology. I have also pursued research into electronic materials, devices and particulate systems. Much of my work uses electron microscopy and related analytical techniques where I have pioneered the development of novel imaging techniques and methods of analysis. I aim to provide a quantitative characterisation of solids on a near atomic scale.

Chapman, R
Robert Chapman
Academic
University of the West of Scotland
2 records

Decay of a narrow and high spin Mg-24+Mg-24 resonance
Salsac, MD; Haas, F; Courtin, S; Algora, A; Beck, C; Beghini, S; Behera, BR; et al.
NUCLEAR PHYSICS A

Structure of neutron-rich Ar isotopes beyond N=28
Bhattacharyya, S; Rejmund, M; Navin, A; Caurier, E; Nowacki, F; Poves, A; Chapman, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 3 Article Number: 032501 (2008)

Chen, S
Sijia Chen
Research Student
University of Strathclyde in Glasgow
Zero records
Chen, Y
Yu Chen
Academic
University of Strathclyde in Glasgow
3 records

*Weighing Supported Nanoparticles: Size-Selected Clusters as Mass Standards in Nanometrology*
Young, NP; Li, ZY; Chen, Y; Palomba, S; Vece, M; Palmer, RE
PHYSICAL REVIEW LETTERS

*Processing and characterization of gold nanoparticles for use in plasmon probe spectroscopy and microscopy of biosystems*
Chen, Y; Preece, JA; Palmer, RE
'Proceedings of the 10th International Conference on Methods and Applications of Fluorescence - Spectroscopy, Imaging and Probes', SEP 09-12, 2007, Salzburg, AUSTRIA
FLUORESCENCE METHODS AND APPLICATIONS: SPECTROSCOPY, IMAGING, AND PROBES, ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, Wolfbeis, OS (Eds)

*Structures and optical properties of 4-5 nm bimetallic AgAu nanoparticles*
Li, ZY; Wilcoxon, JP; Yin, F; Chen, Y; Palmer, RE; Johnston, RL
'Proceedings of the Meeting on Nanoalloys: From Theory to Application', SEP 03-05, 2007, Birmingham, ENGLAND
FARADAY DISCUSSIONS

Chen, YJ
Yujiie Chen
Research Student
University of Strathclyde in Glasgow
Zero records

Chennu, A
Arjun Chennu
Research Student
University of St Andrews
Zero records

Chiu, M-C
Mu-Chen Chiu
Research Student
The University of Edinburgh
Zero records

Cipiccia, S
Silvia Cipiccia
Research Student
University of Strathclyde in Glasgow
Zero records
Cirasuolo, M
Michele Cirasuolo
Researcher
The University of Edinburgh
7 records

On the evolution of clustering of 24-μm selected galaxies
Magliocchetti, M; Cirasuolo, M; McLure, RJ; Dunlop, JS; Almaini, O; Foucaud, S; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 383 Issue: 3 Pages: 1131-1142 (2008)

Optical-radio mapping: The kinetic efficiency of radio-loud AGNS
Shankar, F; Cavaliere, A; Cirasuolo, M; Maraschi, L
ASTROPHYSICAL JOURNAL

Exploring the infrared/radio correlation at high redshift
Ibar, E; Cirasuolo, M; Ivison, R; Best, P; Smail, I; Biggs, A; Simpson, C; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The SCUBA HAlf degree extragalactic survey (SHADES) - VII. Optical/IR photometry and stellar masses of submillimetre galaxies
Dye, S; Eales, SA; Aretxaga, I; Serjeant, S; Dunlop, JS; Babbedge, TSR; Chapman, SC; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The SCUBA Half Degree Extragalactic Survey (SHADES) - IX. The environment, mass and redshift dependence of star formation
Serjeant, S; Dye, S; Mortier, A; Peacock, J; Egami, E; Cirasuolo, M; Rieke, G; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The clustering and abundance of star-forming and passive galaxies at z similar to 2
Hartley, WG; Lane, KP; Almaini, O; Cirasuolo, M; Foucaud, S; Simpson, C; Maddox, S; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Galaxy Formation & Evolution: The Far-IR/Sub-mm View
Cirasuolo, M; Dunlop, JS
'Proceedings of the International Conference on Panoramic Views of Galaxy Formation and Evolution',
DEC 11-16, 2007, Hayama, JAPAN
PANORAMIC VIEWS OF GALAXY FORMATION AND EVOLUTION, PROCEEDINGS,
ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Kodama, T, Yamada, T,
Aoki, K (Eds)
Current Research
The goal of my scientific research is to delineate the formation and evolution of galaxies from the uncharted early universe until the present day. In particular, I am currently exploiting the latest generation of deep, wide-area multi-wavelength surveys to explore the crucial epoch of re-ionization when the first, primeval galaxies formed and follow their cosmological evolution. These unique data sets provide key information to trace the assembly history of galaxies over cosmic time, allowing us to put vital constraints on theoretical models of galaxy formation.

Cizmar, T
Tomas Cizmar
Researcher
University of St Andrews
7 records

A dual beam photonic crystal fiber trap for microscopic particles
Gherardi, DM; Carruthers, AE; Cizmar, T; Wright, EM; Dholakia, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 4 Article Number: 041110 (2008)

Optical micromanipulation using supercontinuum Laguerre-Gaussian and Gaussian beams
Morris, JE; Carruthers, AE; Mazilu, M; Reece, PJ; Cizmar, T; Fischer, P; Dholakia, K
OPTICS EXPRESS

Generation of multiple Bessel beams for a biophotonics workstation
Cizmar, T; Kollarova, V; Tsampoula, X; Gunn-Moore, F; Sibbett, W; Bouchal, Z; Dholakia, K
OPTICS EXPRESS

Fibre based cellular transfection
Tsampoula, X; Taguchi, K; Cizmar, T; Garces-Chavez, V; Ma, N; Mohanty, S; Mohanty, K; et al.
OPTICS EXPRESS

Long-range one-dimensional longitudinal optical binding
Karasek, V; Cizmar, T; Brzobohaty, O; Zemanek, P; Garces-Chavez, V; Dholakia, K
PHYSICAL REVIEW LETTERS

Generation and control of multiple Bessel beams for optical micromanipulation - art. no. 70380Q
Cizmar, T; Kollarova, V; Tsampoula, X; Gunn-Moore, F; Bouchal, Z; Dholakia, K
'Proceedings of the Conference on Optical Trapped and Optical Micromanipulation V', AUG 10-13, 2008, San Diego, CA
OPTICAL TRAPPING AND OPTICAL MICROMANIPULATION V, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Dholakia, K, Spalding, GC (Eds)

Novel dual beam fiber traps using endlessly single-mode photonic crystal fiber - art. no. 703828
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'Proceedings of the Conference on Optical Trapped and Optical Micromanipulation V', AUG 10-13, 2008, San Diego, CA
OPTICAL TRAPPING AND OPTICAL MICROMANIPULATION V, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Dholakia, K, Spalding, GC (Eds)
Clark, C
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James Clark
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All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
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Astrophysically triggered searches for gravitational waves: status and prospects
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CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Clark, PJ
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63 records

Exclusive branching-fraction measurements of semileptonic tau decays into three charged hadrons, into phi pi(-)nu(tau), and into phi K-nu(tau)
Aubert, B; Bona, M; Boutigny, D; Coudere, F; Karyotakis, Y; Lees, JP; Poireau, V; et al.
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Study of excited charm-strange baryons with evidence for new baryons Xi(c)(3055)(+) and Xi(c)(3123)(+)
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PHYSICAL REVIEW D
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**Time-dependent Dalitz plot analysis of B-0 -> (DK0)-K+-/pi(+/-) decays**
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
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**Measurements of e(+/e(-) -> K+K-eta, K+K-pi(0), and (KsK +/-)-K-0 pi(-/+) cross sections using initial state radiation events**
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**Measurements of partial branching fractions for (B)over-bar -> X(u)(nu)over-bar and determination of vertical bar V-ub vertical bar**
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**Improved measurement of CP observables in B-+/-->(DCPK +/-)-K-0 decays**
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**Measurement of the decay B--> D(*0)e(-)(nu)over-bar(e)**
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**Measurement of the tau(-)->eta pi(-) pi(+) pi(-) nu(tau) branching fraction and a search for a second-class current in the tau(-)->eta '(958)pi(-)nu(tau) decay**
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Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Study of B-meson decays to eta K-c(*)+, eta(c)(2)S K(*)+, and eta(c)gamma K(*)
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Measurement of the spin of the Xi(1530) resonance
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Measurements of B ->{pi,eta,eta '}(nu(nu)) branching fractions and determination of vertical bar V-ub vertical bar with semileptonically tagged B mesons
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Measurement of the bottomonium ground state in the decay Upsilon(3S)->gamma eta(b)
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Measurement of the branching fraction, polarization, and CP asymmetries in B-0 -> rho(0)(0)rho(0)(0) decay, and implications for the CKM angle alpha
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Measurement of the branching fractions of the radiative charm decays D-0 -> (K)overbar(*)(0)gamma and D-0 -> phi gamma
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
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Measurement of time-dependent CP asymmetry in B-0 -> K-S(0)pi(0)gamma decays
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Observation and Polarization Measurements of $B^-/\rightarrow \phi K^{-}(\pm)$ and $B^-/\rightarrow \phi K^{-}2^{*}(\pm)$
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Search for $B \rightarrow K^-\nu(\nu)\overline{\nu}$ decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Measurement of ratios of branching fractions and CP-violating asymmetries of $B^-/\rightarrow D^*K^{-}(\pm)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 9 Article Number: 092002 (2008)

Observation of $B^-/\rightarrow \chi K^-\overline{\chi}(0)$ and evidence for $B^+ \rightarrow \chi K^-\overline{\chi}(\pm)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Search for the highly suppressed decays $B^-/\rightarrow K^+\pi^(-)\pi^(-)$ and $B^-/\rightarrow K^-\pi^+(\pm)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Volume: 78 Issue: 9 Article Number: 091102 (2008)

Searches for $B$ Meson Decays to $\phi\phi$, $\phi\rho$, $\phi f(0)(980)$, and $f(0)(980) f(0)(980)$ Final States
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Time-dependent and time-integrated angular analysis of $B \rightarrow \phi K^-\overline{\phi}(\pm)$ and $\phi K^-+/-\pi^(-)\pi^(-)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
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Measurement of the Branching Fractions of $(B)\overline{B} \rightarrow D^{**}(\pm)\overline{\nu}(\nu)\overline{\nu}$ Decays in Events Tagged by a Fully Reconstructed $B$ Meson
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Volume: 101 Issue: 26 Article Number: 261802 (2008)

Measurements of $B((B)\overline{B} \rightarrow \Lambda(+)c(p)\overline{c}(p)\overline{\nu}(\nu)\overline{\nu}$ and $B(B^- \rightarrow \Lambda(+)c(p)\overline{c}(p)\overline{\nu}(\nu)\overline{\nu}$ and studies of $\Lambda(+)c(p)\overline{c}(p)\overline{\nu}(\nu)\overline{\nu}$ resonances
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 112003 (2008)
Measurements of branching fractions for $B^+ \rightarrow \rho(+)\gamma$, $B^0 \rightarrow \rho(0)\gamma$, and $B^- \rightarrow \omega \gamma$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 112001 (2008)

Study of hadronic transitions between $Y$ states and observation of $Y(4S) \rightarrow \eta Y(1S)$ decay
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 112002 (2008)

Recent BABAR results on $B$ decays
Clark, PJ
'Proceedings of the 4th International Conference on Flavor Physics', SEP 24-28, 2007, Beijing,
PEOPLES R CHINA
INTERNATIONAL JOURNAL OF MODERN PHYSICS A

Current Research
Research interests are in the fundamental particles of nature and their interactions. In particular, measurements of CP violation (matter-antimatter asymmetry) in $B$ physics and the discovery of new particle decays. Member of the BaBar and LHCb collaborations. Leading an area of expertise in distributed storage management for the GridPP collaboration.

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Current Research
Peter Clarke is Professor of e-Science at the University of Edinburgh and Director the UK National e-Science Centre. He was formerly head of Particle Physics at University College London. In the area of Grid computing he has been involved in UK eScience since its inception. He directs the Institute for eScience at Edinburgh which comprises the NeSC (national centre), the eScience training and education team, the eScience Institute, and the NeSC research division. He was a founder of the e-Science Centre of Excellence in Networked Systems at UCL. He is a member of the management board of the UK grid for particle physics (GridPP), and formerly the European Data Grid and the EGEE projects. He was a member of the Global Grid Forum Steering Committee and co-Director of the Data Area until 2005. He has worked with the JISC for several years through its Committee for Networking (JCN) and the Committee for the Support of Research (JCSR). He has also been very active in the promotion of national and international networking to enable research. He has led several application projects which address issues on the boundary between Grids and the Network and was a principal proponent of UKLight. He is a member of the Particle Physics experiment group at Edinburgh. His earlier work was in making precision measurements of the electro-weak interaction, the properties of the $Z$ and $W$ bosons and indirect searches for the Higgs boson at SLD (SLAC) and LEP (CERN). He now works on studies matter anti-matter asymmetry and CP violation at the LHC proton collider programme (CERN) as a member of the LHCb experiment. He is qualified with D.Phil in Particle Physics from Oxford University, and a B.Sc in Electronic Engineering from Southampton University.
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Paul Clegg
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Bijels: a new class of soft materials
Cates, ME; Clegg, PS
SOFT MATTER

Fluid-bicontinuous gels stabilized by interfacial colloids: low and high molecular weight fluids
Clegg, PS
JOURNAL OF PHYSICS-CONDENSED MATTER
Volume: 20 Issue: 11 Article Number: 113101 (2008)

Influence of particle composition and thermal cycling on bijel formation
White, KA; Schofield, AB; Binks, BP; Clegg, PS
JOURNAL OF PHYSICS-CONDENSED MATTER
Volume: 20 Issue: 49(Sp. Iss. SI) Article Number: 494223 (2008)

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The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08003 (2008)

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Jamie Cole
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Disorder broadening of alloy Auger spectra
Stoker, RD; Szmigiel, M; Miller, NJ; Cole, RJ
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA

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Research Student
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The WFCAM science archive
Hambly, NC; Collins, RS; Cross, NJG; Mann, RG; Read, MA; Sutorius, ETW; Bond, I; et al.
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A Python environment for database curation
Sutorius, E; Bryant, J; Collins, R; Cross, N; Hambly, N; Read, M

Recalibration of data in the VDFS Science Archives
Cross, N; Hambly, N; Collins, R; Read, M; Sutorius, E

Current Research
Dr Collins actively researches high clock-rate Quantum Key Distribution (QKD, also known as quantum cryptography), time-of-flight laser ranging (TOFLR), quantum digital signatures and single-photon sources and their applications. Dr Collins has collaborated with many industrial an academic partners in these (and related) fields.

The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08003 (2008)
The Higgs discovery potential of ATLAS
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Cornwell, JF
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Costa, A
Andre Costa
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Courtial, J
Johannes Courtial
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Ray-optical negative refraction and pseudoscopic imaging with Dove-prism arrays
Courtial, J; Nelson, J
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 023028 (2008)

Simulation of superresolution holography for optical tweezers
Thomson, LC; Boissel, Y; Whyte, G; Yao, E; Courtial, J
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 023015 (2008)
Holographic shaping of generalized self-reconstructing light beams
Thomson, LC; Courial, J
OPTICS COMMUNICATIONS

Simulated holographic three-dimensional intensity shaping of evanescent-wave fields
Thomson, LC; Whyte, G; Mazilu, M; Courial, J
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Ray-optical refraction with confocal lenslet arrays
Courial, J
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 083033 (2008)

Photorealistic visualization of imaging in canonical optical resonators
Nelson, J; Courial, J; Whyte, G
AMERICAN JOURNAL OF PHYSICS

Imaging with parallel ray-rotation sheets
Hamilton, AC; Courial, J
OPTICS EXPRESS

Optical properties of a Dove-prism sheet
Hamilton, AC; Courial, J
JOURNAL OF OPTICS A-PURE AND APPLIED OPTICS
Volume: 10 Issue: 12 Article Number: 125302 (2008)

Superoscillation in speckle patterns
Dennis, MR; Hamilton, AC; Courial, J
OPTICS LETTERS

Holographic assembly workstation for optical manipulation
Gibson, G; Carberry, DM; Whyte, G; Leach, J; Courial, J; Jackson, JC; Robert, D; Miles, M; Padgett, M
'Proceedings of the IEEE/LEOS International Conference on Optical MEMS and Nanophotonics', AUG 12-16, 2007, Hualien, TAIWAN
JOURNAL OF OPTICS A-PURE AND APPLIED OPTICS, IOP PUBLISHING LTD
Volume: 10 Issue: 4 Article Number: 044009 (2008)

Cowan, G
Greig Cowan
Researcher
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Zero records
Cowie, E
Euan Cowie
Research Student
University of Glasgow
1 record

*Radiation hardness study on fused silica*
Hoek, M; Bennet, ED; Branford, D; Cowie, EN; Duren, M; Fohl, K; Glazier, D; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Craik, G
Graham Craik
Research Student
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Zero records

Crain, J
Jason Crain
Academic
The University of Edinburgh
4 records

*Molecular recognition with DNA nanoswitches: Effects of single base mutations on structure*
Mountford, CP; Buck, AH; Catnpbell, CJ; Dickinson, P; Ferapontova, EE; Terry, JG; et al.
JOURNAL OF PHYSICAL CHEMISTRY B

*Molecular mechanisms of cryoprotection in aqueous proline: Light scattering and molecular dynamics simulations*
Troitzsch, RZ; Vass, H; Hossack, WJ; Martyna, GJ; Crain, J
JOURNAL OF PHYSICAL CHEMISTRY B

*Electrochemical control of a DNA Holliday junction nanoswitch by Mg2+ ions*
Ferapontova, EE; Mountford, CP; Crain, J; Buck, AH; Dickinson, P; Beattie, JS; et al.
BIOSENSORS & BIOELECTRONICS

*A Simplified Model of Local Structure in Aqueous Proline Amino Acid Revealed by First-Principles Molecular Dynamics Simulations*
Troitzsch, RZ; Tulip, PR; Crain, J; Martyna, GJ
BIOPHYSICAL JOURNAL
Current Research
Research over the last 5 years have led to a significant revision of the structure and thermodynamics of liquid mixtures relevant to biological macromolecules and their self-assembly. In alcohol-water solutions in particular, combinations of neutron diffraction and computer simulations have revealed for the first time unexpected and complex local structuring which established the importance of hydrophobic interactions in such a simple system. The observation also contradicted the prevailing view dating from 1945 that water is significantly restructured in these important model mixtures. The results motivated a new and successful theory to account for the origin of the anomalous thermodynamic properties of these systems which did not involve water restructuring. Largescale computer simulations of short peptide fragments have also revealed evidence for complex and persistent local structure motifs having remarkable similarities to bonding patterns in protein beta sheets and to so-called “buried water” trapped in the interior of proteins. Ongoing work combining experiment and simulation is focussing on structure and properties of biophysically interesting and technologically relevant systems such as viral inhibitors and anti-microbial peptides. Other work involves applications of DNA nanoswitches which have been designed and now demonstrated to be highly discriminating sensors of nucleic acids with potentially significant impact in biotechnology. The devices employ an unusual method of molecular recognition in which the optically detected switch characteristics are modified when bound to a specific nucleic acid target. Computational work in collaboration with IBM in the US has led to the development of new simulation algorithms for materials simulation implemented on emerging computer architecture.

Craven, AJ
Alan Craven
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University of Glasgow
14 records

Spectrum imaging and three-dimensional atom probe studies of fine particles in a vanadium micro-alloyed steel
Craven, AJ; MacKenzie, M; Cerezo, A; Godfrey, T; Clifton, PH
MATERIALS SCIENCE AND TECHNOLOGY

Quantitative electron energy-loss spectroscopy (EELS) analyses of lead zirconate titanate
Harkins, P; MacKenzie, M; Craven, AJ; McComb, DW
MICRON

Gallium oxide and gadolinium gallium oxide insulators on Si delta-doped GaAs/AlGaAs heterostructures
Paterson, GW; Longo, P; Wilson, JA; Craven, AJ; Long, AR; Thayne, IG; Passlack, M; Droopad, R
JOURNAL OF APPLIED PHYSICS
Volume: 104 Issue: 10 Article Number: 103719 (2008)

Near-simultaneous dual energy range EELS spectrum imaging
Scott, J; Thomas, PJ; MacKenzie, M; McFadzean, S; Wilbrink, J; Craven, AJ; Nicholson, WAP
ULTRAMICROSCOPY

Column ratio mapping: A processing technique for atomic resolution high-angle annular dark-field (HAADF) images
Robb, PD; Craven, AJ
ULTRAMICROSCOPY
A nanoanalytical investigation of elemental distributions in high-k dielectric gate stacks on silicon
Docherty, FT; MacKenzie, M; Craven, AJ; McComb, DW; De Gendt, S; McFadzean, S; McGilvery, CM
'Proceedings of the IEEE International Symposium on Advanced Gate Stack Technology (ISAGST)', 2006, Austin, TX
MICROELECTRONIC ENGINEERING, ELSEVIER SCIENCE BV

Analysis of hafnium containing powders and thin films for CMOS device applications - art. no. 012003
McGilvery, CM; McComb, DW; MacKenzie, M; Craven, AJ; McFadzean, S; De Gendt, S

EFTEM and EELS SI: tools for investigating the effects of etching processes for III-V MOSFET devices - art. no. 012053
Longo, P; Scott, J; Craven, AJ; Hill, RJW; Thayne, I

Electron Energy-Loss Spectrum Imaging of an HfSiO High-k Dielectric Stack with a TaN Metal Gate
MacKenzie, M; Craven, AJ; McComb, DW; McGilvery, CM; McFadzean, S; De Gendt, S
MICROSCOPY OF SEMICONDUCTING MATERIALS 2007, SPRINGER PROCEEDINGS IN PHYSICS, Cullis, AG, Midgley, PA (Eds)
Volume: 120 Pages: 313-316 (2008)

Elemental Profiling of III-V MOSFET High-k Dielectric Gate Stacks Using EELS Spectrum Imaging
Longo, P; Craven, AJ; Scott, J; Holland, M; Thayne, I
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III-V MOSFETs for Digital Applications with Silicon Co-Integration
Kalna, K; Asenov, A; Ayubi-Moak, JS; Craven, AJ; Droopad, R; Hill, R; Holland, MC; et al.
'Proceedings of the 7th International Conference on Advanced Semiconductor Devices and Microsystems', OCT 12-16, 2008, Smolenice, SLOVAKIA
ASDAM 2008, CONFERENCE PROCEEDINGS, Hascik, S, Osvald, J (Eds)

Modelling paramagnetism in EELS: a study of magnetic order - art. no. 012039
Eustace, DA; Cheah, WL; McComb, DW; Docherty, FT; Craven, AJ
Nanoanalysis of high-k dielectrics on semiconductors
Craven, AJ; MacKenzie, M; McComb, DW
IPFA 2008: PROCEEDINGS OF THE 15TH INTERNATIONAL SYMPOSIUM ON THE PHYSICAL & FAILURE ANALYSIS OF INTEGRATED CIRCUITS, Gan, CL, Chin, JM, Natarajan, MI, Tung, CH (Eds)
Pages: 269-274 (2008)

Nucleation, Crystallisation and Phase Segregation in HfO2 and HfSiO
McGilvery, CM; McFadzean, S; MacKenzie, M; Docherty, FT; Craven, AJ; McComb, DW; De Gendt, S
MICROSCOPY OF SEMICONDUCTING MATERIALS 2007, SPRINGER PROCEEDINGS IN PHYSICS, Cullis, AG, Midgley, PA (Eds)
Volume: 120 Pages: 325-328 (2008)

Current Research
My research is concerned with the development of instrumentation and electron and ion beam techniques for finding structural, compositional and chemical information on the atomic scale and applying these techniques to functional and structural materials. The key here is the development of electron energy loss near edge structure as a nanoanalytical tool. In addition to using the world class facilities in Glasgow, I am an investigator on the UK SuperSTEM project. Materials under investigation currently include oxides on semiconductors to allow devices to continue to grow at the rate predicted by Moore’s Law and steels for higher strength materials.

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Crooks, DRM
David Crooks
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All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)
A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdenio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Cross, AW
Adrian Cross
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16 records

Free-electron maser based on a cavity with two- and one-dimensional distributed feedback
Konoplev, IV; Cross, AW; MacInnes, P; He, W; Phelps, ADR; Whyte, CG; Ronald, K; Robertson, CW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 21 Article Number: 211501 (2008)

Demonstration of auroral radio emission mechanisms by laboratory experiment
McConville, SL; Speirs, DC; Ronald, K; Phelps, ADR; Cross, AW; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074010 (2008)

Numerical simulation of auroral cyclotron maser processes
Speirs, DC; McConville, SL; Gillespie, KM; Ronald, K; Phelps, ADR; Cross, AW; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074011 (2008)

Axis-encircling electron beam generation using a smooth magnetic cusp for gyrodevices
He, W; Whyte, CG; Rafferty, EG; Cross, AW; Phelps, ADR; Ronald, K; Young, AR; et al.
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 12 Article Number: 121501 (2008)

Wave propagation and tunneling through periodic structures
Konoplev, IV; MacInnes, P; Cross, AW; Phelps, ADR; Fisher, L; Ronald, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 23 Article Number: 231110 (2008)

Radio frequency resonator structure and diagnostic measurements for a laboratory simulation of Auroral Kilometric Radiation
Ronald, K; Speirs, DC; McConville, SL; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
PHYSICS OF PLASMAS
Volume: 15 Issue: 5 Article Number: 056503 (2008)
Electron beam measurements for a laboratory simulation of auroral kilometric radiation
Ronald, K; McConville, SL; Speirs, DC; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
'Proceedings of the 28th International Conference on Phenomena in Ionized Gases', JUL 15-20, 2007, Prague, CZECH REPUBLIC
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Volume: 17 Issue: 3 Article Number: 035011 (2008)

3D PiC code simulations for a laboratory experimental investigation of Auroral Kilometric Radiation mechanisms
Gillespie, KM; Speirs, DC; Ronald, K; McConville, SL; Phelps, ADR; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 12 Article Number: 124038 (2008)

A fast multilayer window design tool, simulations and comparison with experiment
Whyte, CG; Young, AR; Rowlands, DH; Robertson, CW; Phelps, ADR; He, WL; Cross, AW; Ronald, K
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 316-317 (2008)

A similar to 10kW W-Band Gyro-BWO using a Helically Corrugated Waveguide
Donaldson, CR; He, WL; Phelps, ADR; Li, FP; Cross, AW; Ronald, K; Young, AR; Whyte, CG
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 201-202 (2008)

Broadband gyro-TWA with thermionic CUSP gun: Simulations and comparison with experiment
Whyte, CG; Young, AR; Rowlands, DH; Robertson, CW; Phelps, ADR; He, WL; Cross, AW; Ronald, K
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 89-90 (2008)

Design of a high power W-band maser based on a two dimensional periodic structure
Fisher, L; Konopley, IV; Cross, AW; Phelps, ADR
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 252-253 (2008)

Helically corrugated waveguides for compression of microwave pulses
McStravick, M; Samsonov, SV; Cross, AW; Denisov, GG; He, W; MacInnes, P; Phelps, ADR; et al.
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 181-182 (2008)
High Power Masers based on 2D periodic structures: from the GHz to THz frequency range
Fisher, L; MacInnes, P; Konoplev, IV; Cross, AW; He, W; Ronald, K; Phelps, ADR; et al.
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 418-419 (2008)

Laboratory Reproduction of Auroral Magnetospheric Radio Wave Sources
Ronald, K; Speirs, DC; McConville, SL; Gillespie, KM; Phelps, ADR; Cross, AW; et al.
FRONTIERS IN MODERN PLASMA PHYSICS, AIP CONFERENCE PROCEEDINGS, Shukla, PK, Eliasson, B, Stenflo, L (Eds)

The Design of a 390 GHz Gyrotron Based on a Cusp Electron Gun
Li, F; He, W; Phelps, ADR; Cross, AW; Donaldson, CR; Ronald, K
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 167-168 (2008)

Current Research
Research interests include plasma physics, pseudospark discharges and high power free electron radiation sources where complex electromagnetic structures are used to modify and control the properties of the radiation with which an electron beam is interacting. The high power microwave and millimetre wave radiation generated has applications in plasma heating/diagnostics and particle acceleration.

Cross, N
Nicholas Cross
Researcher
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5 records

Lyman break galaxies, Ly alpha emitters, and a radio galaxy in a protocluster at z=4.1(1,2)
Overzier, RA; Bouwens, RJ; Cross, NJG; Venemans, BP; Miley, GK; Zirm, AW; Benitez, N; et al.
ASTROPHYSICAL JOURNAL

The WFCAM science archive
Hambly, NC; Collins, RS; Cross, NJG; Mann, RG; Read, MA; Sutorius, ETW; Bond, I; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The UKIDSS Galactic Plane Survey
Lucas, PW; Hoare, MG; Longmore, A; Schroder, AC; Davis, CJ; Adamson, A; Bandyopadhyay, RM; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
A Python environment for database curation
Sutorius, E; Bryant, J; Collins, R; Cross, N; Hambly, N; Read, M

Recalibration of data in the VDFS Science Archives
Cross, N; Hambly, N; Collins, R; Read, M; Sutorius, E

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Gavin Cullen
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Cumming, A
Alan Cumming
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All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Cunningham, A
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Measuring Algal Fluorescence From Space In Optically Complex Coastal Waters
McKee, D; Cunningham, A
SEA TECHNOLOGY

Cunningham, WR
William Cunningham
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1 record

Hydroxide catalysis bonding of silicon carbide
van Veggel, AA; van den Ende, D; Bogenstahl, J; Rowan, S; Cunningham, W; Gubbels, GHM; Nijmeijer, H
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY
Curran, A
Arran Curran
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3 records

Growth and Characterization of ZnMgS and ZnMgS/ZnSe Quantum Wells grown on GaAs (100) by Using MBE
Bradford, C; Moug, RT; Curran, A; Thuau, D; Warburton, RJ; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

MBE Growth and Characterization of MgS-Rich Zinc-Blende ZnxMg1-xSl-ySey Alloys
Moug, RT; Bradford, C; Thuau, D; Curran, A; Warburton, RJ; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

ZnSe Hybrid Microcavities Fabricated Using a MgS Release Layer: Strong & Weak Exciton-Photon Coupling
Curran, A; Barbour, RJ; Morrod, JK; Prior, KA; Kar, AK; Warburton, RJ
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

Cushley, M
Michelle Cushley
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1 record

Strain quantification in epitaxial thin films - art. no. 012086
Cushley, M

Dalgarno, PA
Paul Dalgarno
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8 records

Optical pumping of a single hole spin in a quantum dot
Gerardot, BD; Brunner, D; Dalgarno, PA; Ohberg, P; Seidl, S; Kroner, M; Karrai, K; et al.
NATURE
Power law carrier dynamics in semiconductor nanocrystals at nanosecond timescales
Sher, PH; Smith, JM; Dalgarno, PA; Warburton, RJ; Chen, X; Dobson, PJ; Daniels, SM; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 10 Article Number: 101111 (2008)

Hole recapture limited single photon generation from a single n-type charge-tunable quantum dot
Dalgarno, PA; McFarlane, J; Brunner, D; Lambert, RW; Gerardot, BD; Warburton, RJ; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 19 Article Number: 193103 (2008)

Optically induced hybridization of a quantum dot state with a filled continuum
Dalgarno, PA; Ediger, M; Gerardot, BD; Smith, JM; Seidl, S; Kroner, M; Karrai, K; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 17 Article Number: 176801 (2008)

Coulomb interactions in single charged self-assembled quantum dots: Radiative lifetime and recombination energy
Dalgarno, PA; Smith, JM; McFarlane, J; Gerardot, BD; Karrai, K; Badolato, A; Petroff, PM; Warburton, RJ
PHYSICAL REVIEW B
Volume: 77 Issue: 24 Article Number: 245311 (2008)

Solid immersion lens applications for nanophotonic devices
Serrels, KA; Ramsay, E; Dalgarno, PA; Gerardot, BD; O'Connor, JA; Hadfield, RH; Warburton, RJ; Reid, DT
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021854 (2008)

Statistics of quantum dot exciton fine structure splittings and their polarization orientations
Seidl, S; Gerardot, BD; Dalgarno, PA; Kowalik, K; Holleitner, AW; Petroff, PM; Karrai, K; Warburton, RJ
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES

Investigation of Local Photon Detection Efficiency Distributions in Nanowire Superconducting Single-Photon Detectors
Baek, B; Gansen, EJ; Stevens, MJ; Mirin, RP; Nam, SW; Hadfield, RH; Dalgarno, PA; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 3233-3234 (2008)

Dalzell, CJ
Craig Dalzell
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1 record

Distributed optical fibre sensing of temperature using time-correlated two-photon excited fluorescence: theoretical overview
Dalzell, CJ; Han, TPJ; Ruddock, IS
APPLIED PHYSICS B-LASERS AND OPTICS
Dammalapati, U
Umakanth Dammalapati
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2 records

Development of a thermal ionizer as ion catcher
Traykov, E; Dammalapati, U; De, S; Dermois, OC; Huisman, L; Jungmann, K; Kruithof, W; et al.
'Proceedings of the 15th International Conference on Electromagnetic Isotope Separators and Techniques Related to their Applications', JUN 24-29, 2007, Deauville, FRANCE
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS

Production and trapping of radioactive atoms at the TRI mu P facility
Traykov, E; Dammalapati, U; De, S; Dermois, OC; Huisman, L; Jungmann, K; Kruithof, W; et al.
'Proceedings of the 15th International Conference on Electromagnetic Isotope Separators and Techniques Related to their Applications', JUN 24-29, 2007, Deauville, FRANCE
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS

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Saverio D'Auria
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University of Glasgow
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The detector control system of the ATLAS SemiConductor Tracker during macro-assembly and integration
Abdesselam, A; Barr, A; Basiladze, S; Bates, RL; Bell, P; Bingefors, N; Bohm, J; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P02007 (2008)

Measurement of correlated b(b)over-bar production in p(p)over-bar collisions at root s=1960 GeV
Aaltonen, T; Abulencia, A; Adelman, J; Affolder, T; Akimoto, T; Albrow, MG; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 7 Article Number: 072004 (2008)

Engineering for the ATLAS SemiConductor Tracker (SCT) end-cap
Abdesselam, A; Allport, PP; Anderson, B; Andricek, L; Anghinolfi, F; Apsimon, RJ; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P05002 (2008)

Search for third generation vector leptoquarks in p(p)over-bar collisions at root s=1.96 TeV
Aaltonen, T; Abulencia, A; Adelman, J; Affolder, T; Akimoto, T; Albrow, MG; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 9 Article Number: 091105 (2008)
Cross section measurements of high-p(T) dilepton final-state processes using a global fitting method
Abulencia, A; Adelman, J; Affolder, T; Akimoto, T; Albrow, MG; Ambrose, D; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 1 Article Number: 012003 (2008)

Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors
Abate, E; Abdessalam, A; Addy, TN; Akesson, TPA; Allport, PP; Andricek, L; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P08003 (2008)

The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdessalam, A; Abdinov, O; Abi, BA; et al.
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Volume: 3 Article Number: P08003 (2008)

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David, L
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1 record

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Davidson, I
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High-precision determination of the pi, K, D, and D-s decay constants from lattice QCD
Follana, E; Davies, CTH; Lepage, GP; Shigemitsu, J
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First observation of the decay B-s(0)-> Ds-Ds+ and measurement of its branching ratio
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Continuous tuning and efficient intracavity second-harmonic generation in a semiconductor disk laser with an intracavity diamond heatspreader
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**Longitudinal Mode Selection in a Fiber-Coupled Microlensed Microchip VECSEL**

Laurand, N; Lee, CL; Gu, E; Calvez, S; Dawson, MD  
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**Selective wet etching of AlInN layers for nitride-based MEMS and photonic device structures**  
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**Short-wavelength GaInNAs semiconductor disk lasers**  
Calvez, S; Hastie, JE; Vetter, SL; Dawson, MD; Korpijarvi, VM; Puustinen, J; et al.  
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**Current Research**  
Professor Dawson's research interests include the following: semiconductor disk lasers at wavelengths from ultraviolet to mid-infrared and including high-power and microcavity formats; optical spectroscopy of organic and inorganic semiconductors; micro- and nano-structured gallium nitride materials and devices; hybrid organic/inorganic light-emitting devices; micro- and nano-fabrication in hard and soft materials, including GaN, sapphire, SiC, diamond and polymers; CMOS control and integration of optoelectronic devices.

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Fraser Dear  
Research Student  
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**Optimized nanosecond pulsed laser micromachining of Y-TZP ceramics**  
Wang, X; Shephard, JD; Dear, FC; Hand, DP  
JOURNAL OF THE AMERICAN CERAMIC SOCIETY  

**Single-pulse femtosecond laser machining of glass**  
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INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY  
Volume: 5 Issue: 3 Pages: 249-257 (2008)
Degtyareva, O
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1 record

Structural transition in compressed amorphous sulfur
Sanloup, C; Gregoryanz, E; Degtyareva, O; Hanfland, M
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 7 Article Number: 075701 (2008)

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Quenched mesonic spectrum at large N
Del Debbio, L; Lucini, B; Patella, A; Pica, C
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 3 Article Number: 062 (2008)

Higher representations on the lattice: perturbative studies
Del Debbio, L; Frandsen, MT; Panagopoulos, H; Sannino, F
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 7 (2008)

Proton lifetime bounds from chirally symmetric lattice QCD
Aoki, Y; Boyle, P; Cooney, P; Del Debbio, L; Kenway, R; Maynard, CM; Soni, A; Tweedie, R
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 054505 (2008)

Current Research
My research focuses on non-perturbative aspects of Quantum Field Theory, and their application to phenomenology in high-energy particle physics. I have studied several aspects of QCD dynamics from first principles by numerical simulations, and I have computed several quantities of phenomenological interest within the Standard Model. As a complementary approach to hadronic physics, I also work on the determination of the non-perturbative structure of nucleons directly from experimental data. More recently I have started to study field theories on the lattice beyond QCD, in an attempt to bridge the gap between analytical and numerical approaches. These studies are now leading towards models of strong dynamics beyond the Standard Model and non-perturbative aspects of susy theories.

Delmonte, T
Tina Delmonte
Research Student
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Zero records
Dholakia, K
Kishan Dholakia
Academic
University of St Andrews
25 records

Optical Trapping Takes Shape: The Use of Structured Light Fields
Dholakia, K; Lee, WM
ADVANCES IN ATOMIC, MOLECULAR, AND OPTICAL PHYSICS, VOL 56, ADVANCES IN ATOMIC MOLECULAR AND OPTICAL PHYSICS

Optics - Against the spread of the light
Dholakia, K
NATURE

Near-field optical trapping with an ultrashort pulsed laser beam
Kuriakose, S; Morrish, D; Gan, X; Chon, JWM; Dholakia, K; Gu, M
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 8 Article Number: 081108 (2008)

Green laser light (532 nm) activates a chloride current in the C1 neuron of Helix aspersa
Reece, PJ; Dholakia, K; Thomas, RC; Cottrell, GA
NEUROSCIENCE LETTERS

Optical deflection and sorting of microparticles in a near-field optical geometry
Marchington, RF; Mazilu, M; Kuriakose, S; Garces-Chavez, V; Reece, PJ; Krauss, TF; Gu, M; Dholakia, K
OPTICS EXPRESS

Optical vortex trap for resonant confinement of metal nanoparticles
Dienerowitz, M; Mazilu, M; Reece, PJ; Krauss, TF; Dholakia, K
OPTICS EXPRESS

Optical trapping and spectral analysis of aerosols with a supercontinuum laser source
Guillon, M; Dholakia, K; McGloin, D
OPTICS EXPRESS

A dual beam photonic crystal fiber trap for microscopic particles
Gherardi, DM; Carruthers, AE; Cizmar, T; Wright, EM; Dholakia, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 4 Article Number: 041110 (2008)

Guided neuronal growth using optical line traps
Carnegie, DJ; Stevenson, DJ; Mazilu, M; Gunn-Moore, F; Dholakia, K
OPTICS EXPRESS

Optical micromanipulation using supercontinuum Laguerre-Gaussian and Gaussian beams
Morris, JE; Carruthers, AE; Mazilu, M; Reece, PJ; Cizmar, T; Fischer, P; Dholakia, K
OPTICS EXPRESS
Generation of multiple Bessel beams for a biophotonics workstation
Cizmar, T; Kollarova, V; Tsampoula, X; Gunn-Moore, F; Sibbett, W; Bouchal, Z; Dholakia, K
OPTICS EXPRESS

Enhanced operation of femtosecond lasers and applications in cell transfection
Brown, CTA; Stevenson, DJ; Tsampoula, X; McDougall, C; Lagatsky, AA; Sibbett, W; et al.
JOURNAL OF BIOPHOTONICS
Volume: 1 Issue: 3 Pages: 183-199 (2008)

Fibre based cellular transfection
Tsampoula, X; Taguchi, K; Cizmar, T; Garces-Chavez, V; Ma, N; Mohanty, S; Mohanty, K; et al.
OPTICS EXPRESS

Long-range one-dimensional longitudinal optical binding
Karasek, V; Cizmar, T; Brzobohaty, O; Zemanek, P; Garces-Chavez, V; Dholakia, K
PHYSICAL REVIEW LETTERS

Optically mediated particle clearing using Airy wavepackets
Baumgartl, J; Mazilu, M; Dholakia, K
NATURE PHOTONICS

Controlled three-dimensional manipulation of vanadium oxide nanotubes with optical tweezers
Hernandez-Pozos, JL; Lee, WM; Vera-Robles, LI; Campero, A; Dholakia, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 24 Article Number: 243107 (2008)

Optical manipulation of nanoparticles: a review
Dienerowitz, M; Mazilu, M; Dholakia, K
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021875 (2008)

Optical micromanipulation
Dholakia, K; Reece, P; Gu, M
CHEMICAL SOCIETY REVIEWS

Optical vortices: Optical manipulation to crystal dislocations
MacDonald, MP; Dholakia, K
'Proceedings of the Vortex V Conference on Nanoscience and Engineering in Superconductivity', SEP 08-14, 2007, Rhodes, GREECE
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS

Propagation and diffraction of optical vortices
Fischer, P; Skelton, SE; Leburn, CG; Streuber, CT; Wright, EM; Dholakia, K
'Proceedings of the Vortex V Conference on Nanoscience and Engineering in Superconductivity', SEP 08-14, 2007, Rhodes, GREECE
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS
Advanced and shaped light fields for the biosciences

Dholakia, K

'Proceedings of the Conference on Interferometry XIV - Techniques and Analysis', AUG 11-13, 2008, San Diego, CA
INTERFEROMETRY XIV: TECHNIQUES AND ANALYSIS, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Schmit, J, Creath, K, Towers, CE (Eds)

Enhanced optical micromanipulation and transfection of cells using femtosecond lasers.
Brown, CTA; Tsampoula, X; Stevenson, D; McDougall, C; Gunn-Moore, FJ; Dholakia, K

'Proceedings of the IEEE/LEOS Summer Topical Meetings', JUL 21-23, 2008, Acapulco, MEXICO
2008 DIGEST OF THE LEOS SUMMER TOPICAL MEETINGS, Digest of the LEOS Summer Topical Meetings
Volume: Pages: 75-76 (2008)

Femtosecond cellular transfection using a non-diffracting beam - art. no. 68541L
Tsampoula, X; Garces-Chavez, V; Comrie, M; Stevenson, DJ; Agate, B; Brown, CTA; et al.

'Proceedings of the Conference on Optical Interactions with Tissue and Cells XIX', JAN 21-23, 2008, San Jose, CA
OPTICAL INTERACTIONS WITH TISSUE AND CELLS XIX, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Jacques, SL, Roach, WP, Thomas, RJ (Eds)

Generation and control of multiple Bessel beams for optical micromanipulation - art. no. 70380Q
Cizmar, T; Kollarova, V; Tsampoula, X; Gunn-Moore, F; Bouchal, Z; Dholakia, K

'Proceedings of the Conference on Optical Trapped and Optical Micromanipulation V', AUG 10-13, 2008, San Diego, CA
OPTICAL TRAPPING AND OPTICAL MICROMANIPULATION V, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Dholakia, K, Spalding, GC (Eds)

Novel dual beam fiber traps using endlessly single-mode photonic crystal fiber - art. no. 703828
Gherardi, DM; Carruthers, AE; Cizmar, T; Marchington, RF; Dholakia, K

'Proceedings of the Conference on Optical Trapped and Optical Micromanipulation V', AUG 10-13, 2008, San Diego, CA
OPTICAL TRAPPING AND OPTICAL MICROMANIPULATION V, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Dholakia, K, Spalding, GC (Eds)

di Falco, A
Andrea di Falco
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3 records

Dispersion control and slow light in slotted photonic crystal waveguides
Gupta, D; Bag, M; Narayan, KS
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 8 (2008)
Tunneling mediated by 2D+1 conical waves in a 1D lattice
Di Falco, A; Conti, C; Trillo, S
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Volume: 101 Issue: 1 Article Number: 013601 (2008)

Photonic crystal slotted slab waveguides
Di Falco, A; O'Faolain, L; Krauss, TF
'Proceedings of the 7th International Symposium on Photonic and Electromagnetic Crystal Structures (PECS-VII)', APR 08-11, 2007, Monterey, CA
PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS

Dickson, E
Ewan Dickson
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University of Glasgow
1 record

Low-energy cutoffs in electron spectra of solar flares: Statistical survey
Kontar, EP; Dickson, E; Kasparova, J
SOLAR PHYSICS
Volume: 252 Issue: 1 Pages: 139-147 (2008)

Dienerowitz, M
Maria Dienerowitz
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2 records

Optical vortex trap for resonant confinement of metal nanoparticles
Dienerowitz, M; Mazilu, M; Reece, PJ; Krauss, TF; Dholakia, K
OPTICS EXPRESS

Optical manipulation of nanoparticles: a review
Dienerowitz, M; Mazilu, M; Dholakia, K
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021875 (2008)

Diver, DA
Declan Diver
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4 records

A cautionary note on cosmological magnetic fields
Teodoro, LFA; Diver, DA; Hendry, MA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Unplugging the universe: the neglected electromagnetic consequence of decoupling
Diver, DA; Teodoro, LFA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Post-hoc derivation of SOHO Michelson doppler imager flat fields
Potts, HE; Diver, DA
ASTRONOMY & ASTROPHYSICS

Automatic recognition and characterisation of supergranular cells from photospheric velocity fields
Potts, HE; Diver, DA
'Proceedings of the 3rd Solar Image Processing Workshop', SEP, 2006, Dublin, ISRAEL
SOLAR PHYSICS, SPRINGER

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Doherty, T
Thomas Doherty
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The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08003 (2008)

Integrating Security Solutions to Support nanoCMOS Electronics Research
Sinnott, R; Bayliss, C; Doherty, T; Martin, D; Millar, C; Stewart, G; Watt, J; et al.
'Proceedings of the IEEE International Symposium on Parallel and Distributed Processing with Applications', DEC 10-12, 2008, Sydney, AUSTRALIA
PROCEEDINGS OF THE 2008 INTERNATIONAL SYMPOSIUM ON PARALLEL AND DISTRIBUTED PROCESSING WITH APPLICATIONS
Pages: 71-79 (2008)

Supporting security-oriented, collaborative nanoCMOS electronics research
Sinnott, RO; Doherty, T; Martin, D; Millar, C; Stewart, G; Watt, J
'Proceedings of the 8th International Conference on Computational Science', JUN 23-25, 2008, Cracow, POLAND
COMPUTATIONAL SCIENCE - ICCS 2008, PT 1, LECTURE NOTES IN COMPUTER SCIENCE, Bubak, M, VanAlbada, GD, Dongarra, J, Sloot, PMA (Eds)

Dominik, M
Martin Dominik
Researcher
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4 records
Discovery of a Jupiter/Saturn analog with gravitational microlensing
Gaudi, BS; Bennett, DP; Udalski, A; Gould, A; Christie, GW; Maoz, D; Dong, S; et al.
SCIENCE

Limits on additional planetary companions to OGLE 2005-BLG-390L
Kubas, D; Cassan, A; Dominik, M; Bennett, DP; Wambsganss, J; Brilliant, S; Beaulieu, JP; et al.
ASTRONOMY & ASTROPHYSICS

ARTEMS (Automated Robotic Terrestrial Exoplanet Microlensing Search): A possible expert-system based cooperative effort to hunt for planets of Earth mass and below
Dominik, M; Horne, K; Allan, A; Rattenbury, NJ; Tsapras, Y; Snodgrass, C; Bode, MF; et al.
'Proceedings of the Workshop on Hot-Wiring the Transient Universe', JUN 04-07, 2007, Tucson, AZ
ASTRONOMISCHE NACHRICHTEN

ARTEMiS (Automated Robotic Terrestrial Exoplanet Microlensing Search) – Hunting for planets of Earth mass and below
Dominik, M; Horne, K; Allan, A; Rattenbury, NJ; Tsapras, Y; Snodgrass, C; Bode, MF; et al.
'Proceedings of the Exoplanets: Detection, Formation and Dynamics', OCT 22-26, Suzhou, China
PROCEEDINGS OF THE INTERNATIONAL ASTRONOMICAL UNION, Yi-Sui Sun, Sylvio Ferraz Mello, & Ji-Lin Zhou, Cambridge University Press
Volume: 3 Pages: 35-41 (2008)

Current Research
Gravitational microlensing is currently the only ground-based technique able to detect extra-solar planets of Earth mass and even below, and it may provide the first such detection. As part of a three-step strategy for achieving this goal, formed by survey, follow-up and anomaly monitoring, I coordinate the expert system ARTEMiS (Automated Robotic Terrestrial Exoplanet Microlensing Search), which selects the most promising targets for observation and visualizes the data. The arising results will also provide a first census of terrestrial planets around low-mass stars located in the Galactic disk and bulge, rather than just probing the Solar neighbourhood as other techniques.

Donaldson, CR
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3 records

A similar to 10kW W-Band Gyro-BWO using a Helically Corrugated Waveguide
Donaldson, CR; He, WL; Phelps, ADR; Li, FP; Cross, AW; Ronald, K; Young, AR; Whyte, CG
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHertz WAVES, VOLS 1 AND 2
Pages: 201-202 (2008)

A W-Band Gyro-BWO using a helically corrugated waveguide
Donaldson, CR
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 93-94 (2008)
The Design of a 390 GHz Gyrotron Based on a Cusp Electron Gun
Li, F; He, W; Phelps, ADR; Cross, AW; Donaldson, CR; Ronald, K
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 167-168 (2008)

Donaldson, G
Gordon Donaldson
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Dong, F
Fengqiao Dong
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Dong, J
Jun Dong
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Heriot-Watt University
4 records

Laser-diode pumped self-Q-switched microchip lasers
Dong, J; Ueda, KI; Yagi, H; Kaminskii, AA
OPTICAL REVIEW

Nonlinear-laser effects in NH4H2PO4 (ADP) and ND4D2PO4 (DADP) single crystals: almost two-octave multi-wavelength Stokes and anti-Stokes combs, cascaded lasing in UV and visible ranges with the involving of the second and third harmonic generation
Kaminskii, AA; Dolbinina, VV; Rhee, H; Eichler, HJ; Ueda, K; Takaichi, K; Shirakawa, A; et al.
LASER PHYSICS LETTERS

A crystalline-orientation self-selected linearly polarized Yb : Y3Al5O12 microchip laser
Dong, J; Shirakawa, A; Ueda, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 10 Article Number: 101105 (2008)

Monoclinic LaBO2MoO4 : Nd3+ - a new SE- and (chi((2)) + chi((3)))-active crystal for multifunctional lasers
Becker, P; van der Wolf, B; Bohaty, L; Dong, J; Kaminskii, AA
LASER PHYSICS LETTERS
Volume: 5 Issue: 10 Pages: 737-745 (2008)

Doyle, AT
Tony Doyle
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9 records
Three- and four-jet final states in photoproduction at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
NUCLEAR PHYSICS B
Volume: 792 Issue: 01-Feb Pages: 1-47 (2008)

Diffractive photoproduction of dijets in ep collisions at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
EUROPEAN PHYSICAL JOURNAL C

Energy dependence of the charged multiplicity in deep inelastic scattering at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 061 (2008)

Multijet cross sections in charged current e(+/-)p scattering at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 032004 (2008)

The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08003 (2008)

Deep inelastic inclusive and diffractive scattering at Q(2) values from 25 to 320 GeV2 with the ZEUS forward plug calorimeter
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
NUCLEAR PHYSICS B
Volume: 800 Issue: 01-Feb Pages: 1-76 (2008)

Inclusive (KSKS0)-K-0 resonance production in ep collisions at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 11 Article Number: 112003 (2008)

Beauty photoproduction using decays into electrons at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 072001 (2008)

Dynamic data replication in LCG 2008
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'Proceedings of the 5th UK e-Science All Hands Meeting (AHM 2006)', SEP 18-21, 2006, Nottingham, ENGLAND
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, JOHN WILEY & SONS LTD

Driver, S
Simon Driver
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University of St Andrews
4 records
The energy output of the universe from 0.1 to 1000 μm
Driver, SP; Popescu, CC; Tuffs, RJ; Graham, AW; Liske, J; Baldry, I
ASTROPHYSICAL JOURNAL LETTERS

On the galaxy stellar mass function, the mass-metallicity relation and the implied baryonic mass function
Baldry, IK; Glazebrook, K; Driver, SP
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 388 Issue: 3 Pages: 945-959 (2008)

DEEP NEAR-INFRARED SURFACE PHOTOMETRY OF 57 GALAXIES IN THE LOCAL SPHERE OF INFLUENCE
Kirby, EM; Jerjen, H; Ryder, SD; Driver, SP
ASTRONOMICAL JOURNAL

High resolution science with high redshift galaxies
Windhorst, RA; Hathi, NP; Cohen, SH; Jansen, RA; Kawata, D; Driver, SP; Gibson, B
ADVANCES IN SPACE RESEARCH

Dunlop, JS
James Dunlop
Academic
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11 records

On the evolution of clustering of 24-μm-selected galaxies
Magliocchetti, M; Cirasuolo, M; McLure, RJ; Dunlop, JS; Almaini, O; Foucaud, S; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 383 Issue: 3 Pages: 1131-1142 (2008)

The SCUBA HAlf degree extragalactic survey - VI. 350-μm mapping of submillimetre galaxies
Coppin, K; Halpern, M; Scott, D; Borys, C; Dunlop, J; Dunne, L; Ivison, R; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

A Combined EIS-NVSS Survey Of Radio Sources (CENSORS) - III. Spectroscopic observations
Brookes, MH; Best, PN; Peacock, JA; Rottgering, HJA; Dunlop, JS
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Exploring the infrared/radio correlation at high redshift
Ibar, E; Cirasuolo, M; Ivison, R; Best, P; Smail, I; Biggs, A; Simpson, C; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The SCUBA HAlf degree extragalactic survey (SHADES) - VII. Optical/IR photometry and stellar masses of submillimetre galaxies
Dye, S; Eales, SA; Aretxaga, I; Serjeant, S; Dunlop, JS; Babbedge, TSR; Chapman, SC; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Clarifying the nature of the brightest submillimetre sources: interferometric imaging of LH 850.02
Younger, JD; Dunlop, JS; Peck, AB; Ivison, RJ; Biggs, AD; Chapin, EL; Clements, DL; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The SCUBA Half Degree Extragalactic Survey (SHADES) - IX. The environment, mass and redshift dependence of star formation
Serjeant, S; Dye, S; Mortier, A; Peacock, J; Egami, E; Cirasuolo, M; Rieke, G; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The SCUBA Half-Degree Extragalactic Survey (SHADES) - VIII. The nature of faint submillimetre galaxies in SHADES, SWIRE and SXDF surveys
Clements, DL; Vaccari, M; Babbedge, T; Oliver, S; Rowan-Robinson, M; Davoodi, P; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The clustering and abundance of star-forming and passive galaxies at z similar to 2
Hartley, W; Lane, KP; Almaini, O; Cirasuolo, M; Foucaud, S; Simpson, C; Maddox, S; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Galaxy Formation & Evolution: The Far-IR/Sub-mm View
Cirasuolo, M; Dunlop, JS
'Proceedings of the International Conference on Panoramic Views of Galaxy Formation and Evolution',
DEC 11-16, 2007, Hayama, JAPAN
PANORAMIC VIEWS OF GALAXY FORMATION AND EVOLUTION, PROCEEDINGS,
ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Kodama, T, Yamada, T,
Aoki, K (Eds)

The Clustering of Star-Forming and Passive Galaxies at z similar to 2
Almaini, O; Hartley, W; Foucaud, S; Lane, K; Conselice, CJ; McLure, RJ; Cirasuolo, M; et al.
'Proceedings of the International Conference on Panoramic Views of Galaxy Formation and Evolution',
DEC 11-16, 2007, Hayama, JAPAN
PANORAMIC VIEWS OF GALAXY FORMATION AND EVOLUTION, PROCEEDINGS,
ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Kodama, T, Yamada, T,
Aoki, K (Eds)
Volume: 399 Pages: 90-93 (2008)

Dunn, MH
Malcolm Dunn
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2 records

Line-narrowed, compact, and coherent source of widely tunable terahertz radiation
Stothard, DJM; Edwards, TJ; Walsh, D; Thomson, CL; Rae, CF; Dunn, MH; Browne, PG
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 14 Article Number: 141105 (2008)
**Active hyperspectral imaging system for the detection of liquids** - art. no. 69540L
Howle, CR; Stothard, DJM; Rae, CF; Ross, M; Truscott, BS; Dyer, CD; Dunn, MH
'Proceedings of the 9th Annual Conference for Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Sensing', MAR 18-20, 2008, Orlando, FL
CHEMICAL, BIOLOGICAL, RADIOLOGICAL, NUCLEAR, AND EXPLOSIVES (CBRNE) SENSING IX, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Fountain III, AW, Gardner, PJ (Eds)

**Dunn, RJ**
Richard Dunn
Research Student
Heriot-Watt University
1 record

*Polyimide microcantilever surface stress sensor using low-cost, rapidly-interchangeable, spring-loaded microprobe connections*
Ibbotson, RH; Dunn, RJ; Djakov, V; Ferrigno, PK; Huq, SE
MICROELECTRONIC ENGINEERING
Volume: 85 Issue: 5-6 Pages: 1314-1317 (2008)

**Dunning, D**
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**Dunstone, N**
Nick Dunstone
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**Duxbury, G**
Geoffrey Duxbury
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2 records

*In-flight measurements of ambient methane, nitrous oxide and water using a quantum cascade laser based spectrometer*
Hay, KG; Wright, S; Duxbury, G; Langford, N
'Proceedings of the 6th International Conference on Tunable Diode Laser Spectroscopy', JUN 09-13, 2007, Reims, FRANCE
APPLIED PHYSICS B-LASERS AND OPTICS

*Delayed rapid passage and transient gain signals generated using a chirped 8 mu m quantum cascade laser*
Duxbury, G; Langford, N; Hay, K
'Proceedings of the 38th Winter Colloquium on the Physics of Quantum Electronics', JAN 06-FEB 10, 2008, Snowbird, UT
JOURNAL OF MODERN OPTICS
Current Research
The power of the light emitted by electrically pulsed or pulse modulated quantum cascade lasers can cause a range of non-linear processes in molecules. These are induced by the rapid passage of the radiation through an absorption line, and the molecular alignment produced is marked by the occurrence of free induction decay signals. We are quantifying the conditions under which these processes may occur, and are investigating their potential for directly influencing population transfer.

**Ebbecke, J**
Jens Ebbecke
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3 records

*Acoustic charge transport in GaN nanowires*
Ebbecke, J; Maisch, S; Wixforth, A; Calarco, R; Meijers, R; Marso, M; Luth, H
NANOTECHNOLOGY
Volume: 19 Issue: 27 Article Number: 275708 (2008)

*Theoretical and experimental investigations of Coulomb blockade in coupled quantum dot systems*
Kaiser, FJ; Kohler, S; Hanggi, P; Malecha, M; Ebbecke, J; Wixforth, A; Schumacher, HW; et al.
JOURNAL OF PHYSICS-CONDENSED MATTER
Volume: 20 Issue: 37 Article Number: 374108 (2008)

*Self-aligned growth of carbon nanosticks*
Kolbl, D; Ebbecke, J; Heinrich, A; Wixforth, A
NANOTECHNOLOGY
Volume: 19 Issue: 48 Article Number: 485304 (2008)

Current Research
Jens recently joined Heriot-Watt University as a lecturer in October 2007 after a four-year postdoc period at Augsburg University, Germany. In 2002-2003, he was employed by NPL in London but mostly worked as a guest at the Cavendish Laboratory in Sir Michael Pepper's group. His main interests are acoustodynamic effects in semiconductor nanostructures. This includes surface acoustic wave mediated single charge transport in III/V quantum dots and carbon nanotubes and also single photon generation on demand in semiconductor nanostructures.

**Edgar, M**
Matthew Edgar
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*An acoustic spanner and its associated rotational Doppler shift*
Skeldon, KD; Wilson, C; Edgar, M; Padgett, MJ
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**Edwards, PR**
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8 records
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Edwards, T
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Zero records

Edwards, TJ
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1 record

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Eisenhardt, S
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3 records

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Eklund, L
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El Mkami, H
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1 record

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Elejalde, U
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1 record

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David Elfstrom
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Ersfeld, B
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Esposito, E
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Chris Evans
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Feix, M
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2 records

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Fender, A
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8 records

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7 records

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JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 061 (2008)

Multijet cross sections in charged current e(+/−)p scattering at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 032004 (2008)

Deep inelastic inclusive and diffractive scattering at Q(2) values from 25 to 320 GeV2 with the ZEUS forward plug calorimeter
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
NUCLEAR PHYSICS B

Inclusive (KSKS0)-K-0 resonance production in ep collisions at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 11 Article Number: 112003 (2008)

Beauty photoproduction using decays into electrons at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 072001 (2008)

Finnie, M
Michael Finnie
Research Student
University of Glasgow
1 record

Synthesis and structural characterization of uranium-doped Ca2CuO3, a one-dimensional quantum antiferromagnet
Hoang, NN; Huyhn, DC; Nguyen, TT; Nguyen, DT; Ngo, DT; Finnie, M; Nguyen, C
'Proceedings of the 15th International Conference on Vacuum Ultraviolet Radiation Physics', JUL 29-AUG 03, 2007, Berlin, GERMANY
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING
Volume: 92 Issue: 3 Pages: 715-725 (2008)
Firth, L
Leon Firth
Academic
University of the West of Scotland
Zero records

Firth, WJ
Willie Firth
Academic
University of Strathclyde in Glasgow
4 records

All-optical delay line using semiconductor cavity solitons
Pedaci, F; Barland, S; Caboche, E; Genevet, P; Giudici, M; Tredicce, JR; Ackemann, T; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 1 Article Number: 011101 (2008)

Realization of a semiconductor-based cavity soliton laser
Tanguy, Y; Ackemann, T; Firth, WJ; Jager, R
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 1 Article Number: 013907 (2008)

Self-localized structures in vertical-cavity surface-emitting lasers with external feedback
Paulau, PV; Gomila, D; Ackemann, T; Loiko, NA; Firth, WJ
PHYSICAL REVIEW E
Volume: 78 Issue: 1 Article Number: 016212 (2008)

Enhancement of collective atomic recoil lasing due to pump phase modulation
Robb, GRM; Burgess, RTL; Firth, WJ
PHYSICAL REVIEW A
Volume: 78 Issue: 4 Article Number: 041804 (2008)

Current Research
We have identified a discrepancy between theory and experiment in nonlinear optics of driven optical resonators: the spontaneous appearance of cavity solitons should not happen but does. Similar issues arise in other fields and we found a generic resolution by adding a non-local nonlinear effect. We are also modelling solitons in VCSELs with grating feedback. In atomic physics, we have shown that pump laser noise may enhance collective backscattering and have contributed to an elegant study of domain dynamics in a feedback mirror experiment.

Fischer, I
Ingo Fischer
Academic
Heriot-Watt University
8 records

Evolution from modal to spatially incoherent emission of a broad-area VCSEL
Mandre, SK; Elsasser, W; Fischer, I; Peeters, M; Verschaffelt, G
OPTICS EXPRESS

Dynamics, correlation scaling, and synchronization behavior in rings of delay-coupled oscillators
Van der Sande, G; Soriano, MC; Fischer, I; Mirasso, CR
PHYSICAL REVIEW E
Volume: 77 Issue: 5 Article Number: 055202 (2008)
Generation and spectroscopic application of tunable continuous-wave terahertz radiation using a dual-mode semiconductor laser

Park, I; Sydlo, C; Fischer, I; Elsasser, W; Hartnagel, HL
MEASUREMENT SCIENCE & TECHNOLOGY
Volume: 19 Issue: 6 Article Number: 065305 (2008)

Speckle characteristics of a broad-area VCSEL in the incoherent emission regime

Riechert, F; Verschaffelt, G; Peeters, M; Bastian, G; Lemmer, U; Fischer, I
OPTICS COMMUNICATIONS

Synchronization properties of network motifs: Influence of coupling delay and symmetry

D’Huys, O; Vicente, R; Erneux, T; Danckaert, J; Fischer, I
CHAOs
Volume: 18 Issue: 3 Article Number: 037116 (2008)

Dynamical relaying can yield zero time lag neuronal synchrony despite long conduction delays

Vicente, R; Gollo, LL; Mirasso, CR; Fischer, I; Pipa, G
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA

Synchronization properties of three delay-coupled semiconductor lasers

Vicente, R; Fischer, I; Mirasso, CR
PHYSICAL REVIEW E
Volume: 78 Issue: 6 Article Number: 066202 (2008)

Coherence radius and mode size of a broad-area vertical-cavity surface-emitting laser in the incoherent emission regime - art. no. 699712

Craggs, G; Verschaffelt, G; Peeters, M; Mandre, SK; Fischer, I
SEMICONDUCTOR LASERS AND LASER DYNAMICS III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Panajotov, KP, Sciamanna, M, Valle, AA, Michalzik, R (Eds)

Current Research
Professor Ingo Fischer received a diploma in physics and a Ph.D. degree in Natural Sciences from the Philipps University Marburg (Germany) in 1992 and 1995, respectively. After assistant professor and guest scientist positions in Darmstadt (Germany), Kyoto (Japan), and Brussels (Belgium), he joined Heriot-Watt University in 2007. His research interests are at the interface of photonics with semiconductor lasers and nonlinear physics. He is currently working on utilisation of deterministic chaos for functional purposes. Prof Fischer has received several research prizes including a Cooperation Prize of the Technology Transfer Network Hassia in 2004.

Fisher, L
Lorna Fisher
Research Student
University of Strathclyde in Glasgow
3 records

Wave propagation and tunneling through periodic structures
Konoplev, IV; MaclInnes, P; Cross, AW; Phelps, ADR; Fisher, L; Ronald, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 23 Article Number: 231110 (2008)
Design of a high power W-band maser based on a two dimensional periodic structure
Fisher, L; Konopley, IV; Cross, AW; Phelps, ADR
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 252-253 (2008)

High Power Masers based on 2D periodic structures: from the GHz to THz frequency range
Fisher, L; MacInnes, P; Konoplev, IV; Cross, AW; He, W; Ronald, K; Phelps, ADR; et al.
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 418-419 (2008)

Fitzpatrick, C
Conor Fitzpatrick
Research Student
The University of Edinburgh
Zero records

Fitzsimons, E
Ewan Fitzsimons
Research Student
University of Glasgow
Zero records

Fletcher, L
Lyndsay Fletcher
Academic
University of Glasgow
5 records

Invisible sunspots and rate of solar magnetic flux emergence
Dalla, S; Fletcher, L; Walton, NA
ASTRONOMY & ASTROPHYSICS
Volume: 479 Issue: 1 Pages: L1- (2008)

Impulsive phase flare energy transport by large-scale alfven waves and the electron acceleration problem
Fletcher, L; Hudson, HS
ASTROPHYSICAL JOURNAL

Test-particle simulations of collisional impurity transport in rotating spherical tokamak plasmas
Mckay, RJ; McClements, KG; Thyagaraja, A; Fletcher, L
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 6 Article Number: 065017 (2008)

Hard X-ray emission from the solar corona
Krucker, S; Battaglia, M; Cargill, PJ; Fletcher, L; Hudson, HS; MacKinnon, AL; et al.
ASTRONOMY AND ASTROPHYSICS REVIEW
Solar Flare Impulsive-phase Footpoints in Extreme UV, Soft X-Rays and Hard X-Rays
Bain, HM; Fletcher, L

Proceedings of the Workshop on First Results from Hinode, AUG 20-24, 2007, Dublin, IRELAND
FIRST RESULTS FROM HINODE, ASTRONOMICAL SOCIETY OF THE PACIFIC
CONFERENCE SERIES, Matthews, SA, Davis, JM, Harra, LK (Eds)

Foehl, K
Klaus Foehl
Researcher
The University of Edinburgh
6 records

Incoherent neutral pion photoproduction on C-12
Tarbert, CM; Watts, DP; Aguair, P; Ahrens, J; Annand, JRM; Arends, HJ; Beck, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 13 Article Number: 132301 (2008)

Disc DIRC endcap detector for PANDA@FAIR
Schonmeier, P; Branford, D; Duren, M; Ehrenfried, M; Eyrich, W; Fohl, K; Hoek, M; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Performance studies of microchannel plate PMTs in high magnetic fields
Lehmann, A; Britting, A; Eyrich, W; Pizzolotto, C; Teufel, A; Duren, M; Fohl, K; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Radiation hardness study on fused silica
Hoek, M; Bennet, ED; Branford, D; Cowie, EN; Duren, M; Fohl, K; Glazier, D; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

The barrel DIRC of the PANDA experiment
Schwarz, C; Bettoni, D; Branford, D; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

The DIRC detectors of the (P)over-barANDA experiment at FAIR
Fohl, K; Bettoni, D; Branford, D; Britting, A; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
Forgan, D
Duncan Forgan
Research Student
The University of Edinburgh
Zero records

Forrest, D
David Forrest
Research Student
University of Glasgow
Zero records

Forrest, M
Matthew Forrest
Research Student
University of Glasgow
7 records

Three- and four-jet final states in photoproduction at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
NUCLEAR PHYSICS B

Diffractive photoproduction of dijets in ep collisions at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
EUROPEAN PHYSICAL JOURNAL C

Energy dependence of the charged multiplicity in deep inelastic scattering at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 061 (2008)

Multijet cross sections in charged current e(+/-)p scattering at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 032004 (2008)

Deep inelastic inclusive and diffractive scattering at Q(2) values from 25 to 320 GeV^2 with the ZEUS forward plug calorimeter
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
NUCLEAR PHYSICS B

Inclusive (KS KS0)-K-0 resonance production in ep collisions at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 11 Article Number: 112003 (2008)

Beauty photoproduction using decays into electrons at HERA
Chekanov, S; Derrick, M; Magill, S; Musgrave, B; Nicholass, D; Repond, J; Yoshida, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 072001 (2008)
Foster, A
Adam Foster
Researcher
University of Strathclyde in Glasgow
Zero records

Francis, C
Caroline Francis
Research Student
The University of Edinburgh
Zero records

Franke-Arnold, S
Sonja Franke-Arnold
Academic
University of Glasgow
6 records

*Light beams with fractional orbital angular momentum and their vortex structure*
Gotte, JB; O'Holleran, K; Preece, D; Flossmann, F; Franke-Arnold, S; Barnett, SM; Padgett, MJ
OPTICS EXPRESS
Volume: 16 Issue: 2 Pages: 993-1006 (2008)

*Aether drag and moving images*
Leach, J; Wright, AJ; Gotte, JB; Girkin, JM; Allen, L; Franke-Arnold, S; Barnett, SM; Padgett, MJ
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 15 Article Number: 153902 (2008)

*Twisting light to trap atoms*
Franke-Arnold, S; Arnold, AS
AMERICAN SCIENTIST

*Advances in optical angular momentum*
Franke-Arnold, S; Allen, L; Padgett, M
LASER & PHOTONICS REVIEWS

*Angular diffraction*
Jack, B; Padgett, MJ; Franke-Arnold, S
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 103013 (2008)

*Fourier relationship between the angle and angular momentum of entangled photons*
Jha, AK; Jack, B; Yao, E; Leach, J; Boyd, RW; Buller, GS; Barnett, SM; Franke-Arnold, S; Padgett, MJ
PHYSICAL REVIEW A
Volume: 78 Issue: 4 Article Number: 043810 (2008)

Frankland, V
Victoria Frankland
Researcher
Heriot-Watt University
Zero records
Fraser, HJ
Helen Fraser
Academic
University of Strathclyde in Glasgow
4 records

_Desorption of hot molecules from photon irradiated interstellar ices_
Thrower, JD; Burke, DJ; Collings, MP; Dawes, A; Holtom, PD; Jamme, F; Kendall, P; _et al._
ASTROPHYSICAL JOURNAL

_The c2d Spitzer spectroscopic survey of ices around low-mass young stellar objects. I. H2O and the 5-8 \( \mu \)m bands_
Boogert, ACA; Pontoppidan, KM; Knez, C; Lahuis, F; Kessler-Silacci, J; van Dishoeck, EF; _et al._
ASTROPHYSICAL JOURNAL

_The c2d Spitzer spectroscopic survey of ices around low-mass young stellar objects. II. CO2_
Pontoppidan, KM; Boogert, ACA; Fraser, HJ; van Dishoeck, EF; Blake, GA; Lahuis, F; _et al._
ASTROPHYSICAL JOURNAL

_Surface science investigations of photoprocesses in model interstellar ices_
Thrower, JD; Collings, MP; McCoustra, MRS; Burke, DJ; Brown, WA; Dawes, A; _et al._
'Proceedings of the 54th AVS International Symposium and Exhibition', OCT 14-19, 2007, Seattle, WA
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A
Volume: 26 Issue: 4 Pages: 919-924 (2008)

Current Research
Our astrochemistry research focuses on chemical processes occurring in star-forming regions. Using data from ASTRO-F, JCMT, IRAM and Nobeyama we are mapping interstellar ice and gas features in starless cores. Our UHV experiment is being built to study atom-molecule reactions leading to ice formation on nano-sized interstellar dust analogues. Parabolic flights are used to study how icy grains aggregate to form planets and cometary nuclei.

Frugiuele, C
Claudia Frugiuele
Research Student
The University of Edinburgh
Zero records

Fusari, F
Flavio Fusari
Research Student
University of St Andrews
1 record

_Spectroscopic and lasing performance of Tm3+-doped bulk TZN and TZNG tellurite glasses operating around 1.9 \( \mu \)m_
Fusari, F; Lagatsky, AA; Richards, B; Jha, A; Sibbett, W; Brown, CTA
OPTICS EXPRESS
**Galbraith, I**
Ian Galbraith  
Academic  
Heriot-Watt University  
2 records

*Intraband magneto-optical absorption in InAs/GaAs quantum dots: Orbital Zeeman splitting and the Thomas-Reiche-Kuhn sum rule*  
Zhang, JZ; Galbraith, I  
PHYSICAL REVIEW B  
Volume: 77 Issue: 20 Article Number: 205319 (2008)

*Photon emission induced by elastic exciton-carrier scattering in semiconductor quantum wells*  
Ouerdane, H; Varache, R; Portnoi, ME; Galbraith, I  
EUROPEAN PHYSICAL JOURNAL B  

**Current Research**
The overall aim of my research is to understand the fundamental processes and interactions which influence the behaviour of semiconductor material used in current and new photonic devices. This involves formulating tractable quantum mechanical models for both inorganic and organic(polymer) semiconductors and a necessary close collaboration with experimental colleagues within SUPA and beyond.

**Gale, B**
Barry Gale  
Research Student  
Heriot-Watt University  
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**Gallacher, T**
Thomas Gallacher  
Research Student  
University of St Andrews  
Zero records

**Gallegos**
Pablo Gallegos  
Research Student  
University of Strathclyde in Glasgow  
Zero records

**Galloway, R**
Ross Galloway  
Academic  
The University of Edinburgh  
Zero records

**Current Research**
I am a Teaching Development Officer, with responsibility for undergraduate course development and the investigation, implementation and evaluation of innovative teaching techniques. As such, my research interests lie in the field of education, with particular emphasis on those elements most relevant and effective for education in physics and other scientific disciplines.
Galster, W
Wilf Galster
Researcher
University of Strathclyde in Glasgow
1 record

Study of photo-proton reactions driven by bremsstrahlung radiation of high-intensity laser generated electrons
Spohr, KM; Shaw, M; Galster, W; Ledingham, KWD; Robson, L; Yang, JM; McKenna, P; et al.
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 043037 (2008)

Sadly Professor Galster passed away in March 2009 and a memorial meeting to highlight and reminisce on Wilf’s considerable scientific achievements was held in the Physics Department at the University of Strathclyde on the 19th May 2009. Ken Ledingham, aided by Marialuisa Aliotta, described in detail his scientific career including his early education at Erlangen followed by spells at ANU, the Hahn-Meintner Institute, Berlin, the University of Tsujuba and the Catholic University of Louvain when he had an important collaboration with The University of Edinburgh. Here he became Maitre de Recherche and established one of the first radioactive beam facilities. He returned to The University of Tsukuba as a full professor. Finally he applied for, and was appointed, one of the first SUPA appointments in 2006. He helped to establish at FZD Dresden the first Strathclyde beam line to develop a laser induced proton oncology and laser back scattering facility. Unfortunately illness did not permit him to complete this vision.

Gambino, S
Salvatore Gambino, S
Researcher
University of St Andrews
2 records

Electric field and temperature dependence of the hole mobility in a bis-fluorene cored dendrimer
Gambino, S; Samuel, IDW; Barcena, H; Burn, PL
ORGANIC ELECTRONICS

A rapid route to carbazole containing dendrons and phosphorescent dendrimers
Knights, KA; Stevenson, SG; Shipley, CP; Lo, SC; Olsen, S; Harding, RE; Gambino, S; et al.
JOURNAL OF MATERIALS CHEMISTRY

Gardi, E
Einan Gardi
Researcher
The University of Edinburgh
2 records

A dispersive approach to Sudakov resummation
Gardi, E; Grunberg, G
NUCLEAR PHYSICS B

Distribution amplitudes of the Lambda b baryon in QCD
Ball, P; Braun, VM; Gardi, E
PHYSICS LETTERS B
Gardner, K
Kyle Gardner
Researcher
University of Strathclyde in Glasgow
1 record

Confocal laser scanning microscopy using a frequency doubled vertical external cavity surface emitting laser
Esposito, E; Keatings, S; Gardner, K; Harris, J; Riis, E; McConnell, G
REVIEW OF SCIENTIFIC INSTRUMENTS
Volume: 79 Issue: 8 Article Number: 083702 (2008)

Garn, T
Timothy Garn
Researcher
The University of Edinburgh
3 records

A 610-MHz survey of the ELAIS-N1 field with the Giant Metrewave Radio Telescope - observations, data analysis and source catalogue Authors:
Garn, T; Green, DA.; Riley, JM.; Alexander, P
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 383 Issue: 1 Pages: 75-85 (2008)

A 610-MHz survey of the Lockman Hole with the Giant Metrewave Radio Telescope - I. Observations, data reduction and source catalogue for the central 5 deg2
Garn, T; Green, DA.; Riley, JM.; Alexander, P
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 387 Issue: 3 Pages: 1037-1044 (2008)

Deep 610-MHz Giant Metrewave Radio Telescope observations of the Spitzer extragalactic First Look Survey field - III. The radio properties of infrared-faint radio sources
Garn, T; Alexander, P
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

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Sebastian Gattenloehner
Research Student
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Zero records

Gayraud, N
Nicolas Gayraud
Research Student
Heriot-Watt University
2 records

Mid-infrared gas sensing using a photonic bandgap fiber
Gayraud, N; Kornaszewski, LW; Stone, JM; Knight, JC; Reid, DT; Hand, DP; MacPherson, WN
APPLIED OPTICS
Three-core tellurite fiber with multiple rare earth emission
Bookey, HT; Thomson, RP; Psaila, ND; Kar, AK; Lousteau, J; Jha, A; Gayraud, N; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 238-239 (2008)

Gemmell, A
Alistair Gemmell
Research Student
University of Glasgow
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Gerardot, BD
Brian Gerardot
Researcher
Heriot-Watt University
10 records

Optical pumping of a single hole spin in a quantum dot
Gerardot, BD; Brunner, D; Dalgarno, PA; Ohberg, P; Seidl, S; Kroner, M; Karrai, K; et al.
NATURE

The nonlinear Fano effect
Kroner, M; Govorov, AO; Remi, S; Biedermann, B; Seidl, S; Badolato, A; Petroff, PM; et al.
NATURE

Optical detection of single-electron spin resonance in a quantum dot
Kroner, M; Weiss, KM; Biedermann, B; Seidl, S; Manus, S; Holleitner, AW; Badolato, A; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 15 Article Number: 156803 (2008)

Hole recapture limited single photon generation from a single n-type charge-tunable quantum dot
Dalgar, PA; McFarlane, J; Brunner, D; Lambert, RW; Gerardot, BD; Warburton, RJ; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 19 Article Number: 193103 (2008)

Optically induced hybridization of a quantum dot state with a filled continuum
Dalgar, PA; Ediger, M; Gerardot, BD; Smith, JM; Seidl, S; Kroner, M; Karrai, K; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 17 Article Number: 176801 (2008)

Coulomb interactions in single charged self-assembled quantum dots: Radiative lifetime and recombination energy
Dalgar, PA; Smith, JM; McFarlane, J; Gerardot, BD; Karrai, K; Badolato, A; Petroff, PM; Warburton, RJ
PHYSICAL REVIEW B
Volume: 77 Issue: 24 Article Number: 245311 (2008)
**Solid immersion lens applications for nanophotonic devices**
Serrels, KA; Ramsay, E; Dalgaro, PA; Gerardot, BD; O'Connor, JA; Hadfield, RH; Warburton, RJ; Reid, DT
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021854 (2008)

**Resonant saturation laser spectroscopy of a single self-assembled quantum dot**
Kroner, M; Remi, S; Hogele, A; Seidl, S; Holleitner, AW; Warburton, RJ; Gerardot, BD; et al.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES

**Statistics of quantum dot exciton fine structure splittings and their polarization orientations**
Seidl, S; Gerardot, BD; Dalgaro, PA; Kowalik, K; Holleitner, AW; Petroff, PM; Karrai, K; Warburton, RJ
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES

**Polarization sensitive spectroscopy of charged quantum dots**
Poem, E; Shemesh, J; Marderfeld, I; Galushko, D; Akopian, N; Gershoni, D; Gerardot, BD; et al.
'Proceedings of the 10 International Conference on Optics of Excitons in Confined Systems', SEP 10-13, 2007, Messina, ITALY
PHYSICA STATUS SOLIDI C - CURRENT TOPICS IN SOLID STATE PHYSICS, VOL 5, NO 7, PHYSICA STATUS SOLIDI C-CURRENT TOPICS IN SOLID STATE PHYSICS, Stutzmann, M (Eds)

**Current Research**
Brian graduated from Purdue University in 1998 and earned a Ph.D. from the University of California (Santa Barbara) in 2004 with Pierre Petroff and Dirk Bouwmeester. He then joined Richard Warburton's Nano-Optics Group at Heriot-Watt University. Brian became a Research Fellow of the Royal Society of Edinburgh in 2007. Brian has broad experience in the field of semiconductor nanostructures. His work has included crystal growth via molecular beam epitaxy, nano-fabrication, structural characterization and optical spectroscopy. His current research focuses on the fundamental physics in quantum dots, in particular exploiting the properties of charge and spin for solid-state quantum optics.

**Gersabeck, M**
Marco Gersabeck
Research Student
University of Glasgow
3 records

**The LHCb Detector at the LHC**
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08005 (2008)

**Alignment procedure of the LHCb vertex detector**
Viret, S; Parkes, C; Gersabeck, M
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
Performance of the LHCb vertex detector alignment algorithm determined with beam test data
Gersabeck, M; Viret, S; Parkes, C; Akiba, K; Artuso, M; Borel, J; Bowcock, TJV; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Gerwick, E
Erik Gerwick
Research Student
The University of Edinburgh
Zero records

Ghag, C
Chamkaur Ghag
Researcher
The University of Edinburgh
5 records

Track reconstruction and performance of DRIFT directional dark matter detectors using alpha particles
Burgos, S; Forbes, J; Ghag, C; Gold, M; Kudryavtsev, VA; Lawson, TB; Loomba, D; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Evidence for core excitation in single-particle states of Na-19
Pellegriti, MG; Achouri, NL; Angulo, C; Anglique, JC
PHYSICS LETTERS B

The ZEPLIN II dark matter detector: Data acquisition system and data reduction
Alner, GJ; Araujo, HM; Bewick, A; Bungau, C; Camanzi, B; Carson, MJ; Chagani, H; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Measurements of neutrons produced by high-energy muons at the Boulby Underground Laboratory
Araujo, HM; Blockley, J; Bungau, C; Carson, MJ; Chagani, H; Daw, E; Edwards, B; et al.
ASTROPARTICLE PHYSICS

Measurement of single electron emission in two-phase xenon
Edwards, B; Araujo, HM; Chepel, V; Cline, D; Durkin, T; Gao, J; Ghag, C; Korolkova, EV; et al.
ASTROPARTICLE PHYSICS
Volume: 30 Issue: 2 Pages: 54-57 (2008)

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Current Research
One of the most notable challenges facing cosmology today is the nature of the mysterious dark energy introduced in the standard model of cosmology to account for the current accelerating expansion of the universe. Many non-standard cosmologies have been proposed to eliminate the need for any form of dark energy – one such model is the Sudden Future Singularity model; this model can display a near-future sudden rise in the pressure while the energy density remains unaffected. The evolution of the scale factor in this model shows that a current acceleration is indeed obtained without the inclusion of any form of dark energy. We confront this model with current cosmological data to find out whether it is physically viable.
**Giet, S**  
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*Comparison of thermal management techniques for semiconductor disk lasers - art. no. 687115*  
Giet, S; Kemp, AJ; Burns, D; Calvez, S; Dawson, MD; Suomalainen, S; Harkonen, A; *et al.*  
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SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkston, WA,  
Hodgson, NH, Shori, RK (Eds), SPIE-INT SOC OPTICAL ENGINEERING  

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*Demonstration of auroral radio emission mechanisms by laboratory experiment*  
McConville, SL; Speirs, DC; Ronald, K; Phelps, ADR; Cross, AW; Bingham, R; *et al.*  
PLASMA PHYSICS AND CONTROLLED FUSION  
Volume: 50 Issue: 7 Article Number: 074010 (2008)

*Numerical simulation of auroral cyclotron maser processes*  
Speirs, DC; McConville, SL; Gillespie, KM; Ronald, K; Phelps, ADR; Cross, AW; *et al.*  
PLASMA PHYSICS AND CONTROLLED FUSION  
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*Radio frequency resonator structure and diagnostic measurements for a laboratory simulation of Auroral Kilometric Radiation*  
Ronald, K; Speirs, DC; McConville, SL; Phelps, ADR; Robertson, CW; Whyte, CG; *et al.*  
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*Electron beam measurements for a laboratory simulation of auroral kilometric radiation*  
Ronald, K; McConville, SL; Speirs, DC; Phelps, ADR; Robertson, CW; Whyte, CG; *et al.*  
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3D PiC code simulations for a laboratory experimental investigation of Auroral Kilometric Radiation mechanisms
Gillespie, KM; Speirs, DC; Ronald, K; McConville, SL; Phelps, ADR; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 12 Article Number: 124038 (2008)

Laboratory Reproduction of Auroral Magnetospheric Radio Wave Sources
Ronald, K; Speirs, DC; McConville, SL; Gillespie, KM; Phelps, ADR; Cross, AW; et al.
FRONTIERS IN MODERN PLASMA PHYSICS, AIP CONFERENCE PROCEEDINGS, Shukla, PK, Eliasson, B, Stenflo, L (Eds)

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Linear dichroism of CdSe nanodots: Large anisotropy of the band-gap absorption induced by ground-state dipole moments
van Mourik, F; Giraud, G; Tonti, D; Chergui, M; van der Zwan, G
PHYSICAL REVIEW B
Volume: 77 Issue: 16 Article Number: 165303 (2008)

Orientation dependence in fluorescent energy transfer between Cy3 and Cy5 terminally attached to double-stranded nucleic acids
Iqbal, A; Arslan, S; Okumus, B; Wilson, TJ; Giraud, G; Norman, DG; Ha, T; Lilley, DMJ
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Girkin, JM
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Elejalde, U; Wright, AJ; Girkin, JM
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Evaluation of fitness parameters used in an iterative approach to aberration correction in optical sectioning microscopy
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APPLIED OPTICS
Active focus locking in an optically sectioning microscope utilizing a deformable membrane mirror
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Aether drag and moving images
Leach, J; Wright, AJ; Gotte, JB; Girkin, JM; Allen, L; Franke-Arnold, S; Barnett, SM; Padgett, MJ
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Surface-enhanced Raman scattering spectroscopy as a sensitive and selective technique for the detection of folic acid in water and human serum
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CMOS driven micro-pixel LEDs integrated with single photon avalanche diodes for time resolved fluorescence measurements
Rae, BR; Griffin, C; McKendry, J; Girkin, JM; Zhang, HX; Gu, E; Renshaw, D; et al.
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Design of diffractive optical elements for beam shaping of micro-pixelated LED light to a tightly focused spot
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Individually-addressable flip-chip AlInGaN micropixelated light emitting diode arrays with high continuous and nanosecond output power
Zhang, HX; Massoubre, D; McKendry, J; Gong, Z; Guilhabert, B; Griffin, C; Gu, E; et al.
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Transfer of orbital angular momentum from a super-continuum, white-light beam
Wright, AJ; Girkin, JM; Gibson, GM; Leach, J; Padgett, MJ
OPTICS EXPRESS
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Adaptive optics applied to coherent anti-Stokes Raman scattering microscopy - art. no. 68600T
Girkin, JM; Poland, SP; Wright, AJ; Freudiger, C; Evans, CL; Xie, XS
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Volume: 6860 Pages: T8600-T8600 (2008)

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*Incoherent neutral pion photoproduction on C-12*
Tarbert, CM; Watts, DP; Aguas, P; Ahrens, J; Annand, JRM; Arends, HJ; Beck, R; et al.
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Volume: 100 Issue: 13 Article Number: 132301 (2008)

*The DIRC detectors of the (P)over-barANDA experiment at FAIR*
Fohl, K; Bettoni, D; Branford, D; Britting, A; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
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*He-3(e,e'pp) and He-3(e,e'pn) reactions at AmPS and MAMI*
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'Proceedings of the 20th European Conference on Few-Body Problems in Physics', SEP 10-14, 2007,
Pisa, ITALY
FEW-BODY SYSTEMS

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*The LHCh Detector at the LHC*
Alves, AA; Andrade, LM; Barbosa, AF; Bedia, I; Cernicchiaro, G; Guerrer, G; et al.
JOURNAL OF INSTRUMENTATION
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*Efficient flip-chip InGaN micro-pixelated light-emitting diode arrays: Promising candidates for micro-displays and colour conversion*
Gong, Z; Gu, E; Jin, SR; Massoubre, D; Guillebert, B; Zhang, HX; Dawson, MD; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
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*Micro-LED arrays: a tool for two-dimensional neuron stimulation*
Poher, V; Grossman, N; Kennedy, GT; Nikolic, K; Zhang, HX; Gong, Z; Drakakis, EM; et al.
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Guilhabert, B; Gong, Z; Zhang, H; Belton, C; MackIntosh, A; Gu, E; Campoy-Quiles, M; et al.
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Individually-addressable flip-chip AlInGaN micropixelated light emitting diode arrays with high continuous and nanosecond output power
Zhang, HX; Massoubre, D; McKenzie, J; Gong, Z; Guilhabert, B; Griffin, C; Gu, E; et al.
OPTICS EXPRESS

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Exclusive branching-fraction measurements of semileptonic tau decays into three charged hadrons, into \( \phi \pi^-(\nu_{\tau}) \), and into \( \phi K^{-}\nu_{\tau} \)
Aubert, B; Bona, M; Boutigny, D; Coudert, F; Karyotakis, Y; Lees, JP; Poireau, V; et al.
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Measurement of the CP-violating asymmetries in \( B^0 \to K^-\phi \pi(0) \) and of the branching fraction \( B^0 \to K^0 \pi(0) \)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Observation of the semileptonic decays \( B \to D^*\tau(-)(\nu)\overline{\tau}(\nu) \) and evidence for \( B \to D \tau(-)(\nu)\overline{\tau}(\nu) \)
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Search for \( B^+\to\tau^+\nu \) decays with hadronic \( B \) tags
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Volume: 77 Issue: 1 Article Number: 011104 (2008)
Search for the rare charmless hadronic decay $B^+ \rightarrow a(0)(\pm)\pi(0)$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Volume: 77 Issue: 1 Article Number: 011101 (2008)

Study of excited charm-strange baryons with evidence for new baryons $\Xi(c)(3055)\pm$ and $\Xi(c)(3123)\pm$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Study of resonances in exclusive $B$ decays to $(D)^{(*)}\overline{D}(\overline{(*)})K$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Measurement of the absolute branching fraction of $D^0 \rightarrow K^{-}\pi^{+}$
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Observation of $B^0 \rightarrow K^*-0(K)\overline{K}^*(0)$ and search for $B^0 \rightarrow K^*-0(K)\overline{K}^ *(0)$
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Search for CP violation in the decays $D^0 \rightarrow K^-K^+$ and $D^0 \rightarrow \pi^-(\pm)\pi^+(\pm)$
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Search for decays of $B^0$ mesons into $e^+e^-$, $\mu^+\mu^-$ and $e^+(\pm)\mu^-(\pm)$ final states
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Volume: 77 Issue: 3 Article Number: 032007 (2008)

Search for lepton flavor violating decays $\tau^+(\pm)\rightarrow l^+(\pm)\omega$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
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Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Measurement of the $B \rightarrow X_s$ gamma branching fraction and photon energy spectrum using the recoil method
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146
Measurement of the branching fractions of exclusive \((B)\bar{B} \rightarrow D^{(*)}(\pi)(\nu)\bar{\nu}\) decays in events with a fully reconstructed \(b\) meson
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Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Time-dependent Dalitz plot analysis of \(B_{0}^{-}\rightarrow(D\bar{K})_{0}^{-}\rightarrow \pi^{+}\pi^{-}\pi^{0}\) decays
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Measurements of \(e^{+}e^{-} \rightarrow K^{+}K^{-}\eta, K^{+}K^{-}\pi^{0}, and (Ks\bar{K}^{0} \rightarrow \pi^{0}\pi^{0})\) cross sections using initial state radiation events
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Volume: 77 Issue: 9 Article Number: 092002 (2008)

Measurements of partial branching fractions for \((B)\bar{B} \rightarrow X(\mu)\nu\bar{\nu}\) and determination of vertical bar \(V_{ub}\) vertical bar
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Observation of tree-level \(B\) decays with \(s(\bar{s})\) production from gluon radiation
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Searches for the decays \(B_{0}^{-}\rightarrow l^{-}(\tau)\tau^{-}(\nu)\) and \(B^{+}\rightarrow l^{+}(\nu) l^{+}\) using hadronic tag reconstruction
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
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Volume: 77 Issue: 9 Article Number: 091104 (2008)

Improved measurement of \(CP\) observables in \(B_{s}^{-}\rightarrow (D_{CP}K)^{+}\rightarrow K_{s}\pi^{+}\pi^{-}\) decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Measurement of the decay \(B_{s}^{-}\rightarrow D^{*(0)}e^{-}(\nu)\) decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
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Volume: 100 Issue: 23 Article Number: 231803 (2008)

Measurement of the \(\tau^{-}(\nu)\rightarrow \eta \pi^{0} \pi^{0}(\nu)\) branching fraction and a search for a second-class current in the \(\tau^{+}\rightarrow \eta^{0}(958)\pi^{+}(\nu)(\nu)\) decay
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Study of B -> X(3872)K, with X(3872)-> J/psi pi(+)pi(-)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Evidence for CP violation in B-0 -> J/psi pi(0) decays
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Evidence for direct CP violation from Dalitz-plot analysis of B-+/--> K-+-pi(-/+pi(+/-)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Volume: 78 Issue: 1 Article Number: 012004 (2008)

Measurement of D-0-(D)over-bar(0) mixing using the ratio of lifetimes for the decays D-0 -> K-phi(+), K-K+, and phi(-)phi(+/
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
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Volume: 78 Issue: 1 Article Number: 011105 (2008)

Measurement of the mass difference m(B-0)-m(B+)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 1 Article Number: 011103 (2008)

Observation of B+--> b(1)(+)K(0) and search for B-meson decays to b(1)(0)K(0) and b(1)phi(0)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Volume: 78 Issue: 1 Article Number: 011104 (2008)

Observation of B+-->eta rho(+) and search for B-0 decays to eta 'eta, eta pi(0), eta 'pi(0), and omega pi(0)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
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Improved measurement of the CKM angle gamma in B-+/-->DK(*)-/-/K-(-)K(-) decays with a Dalitz plot analysis of D decays to K-S(0)phi(+)phi(-) and (KSK+K-)-K-0
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 034023 (2008)

Measurement of the branching fractions of the rare decays B-0 -> D-s(*)+phi(-), B-0 -> D-s(*)+rho(-), and B-0 -> Ds(*)-K(*)+
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PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 032005 (2008)
Measurement of the spin of the $\Xi(1530)$ resonance
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PHYSICAL REVIEW D
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Measurements of $B \to \{\pi, \eta, \eta'\} l \nu(l)$ branching fractions and determination of vertical $V$-$ub$ vertical bar with semileptonically tagged $B$ mesons
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Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

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Study of $B$ meson decays with excited eta and eta ' mesons
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Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
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Volume: 78 Issue: 5 Article Number: 052005 (2008)

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Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 051103 (2008)

Search for CP violation in neutral $D$ meson Cabibbo-suppressed three-body decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
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Study of the decay $D^-s(+) \to K(+)K(-)e(+)\nu(e)$
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PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 051101 (2008)

Measurement of the branching fraction, polarization, and CP asymmetries in $B^-0 \to \rho(0)\rho(0)$ decay, and implications for the CKM angle $\alpha$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 071104 (2008)

Measurement of the branching fractions of the radiative charm decays $D^-0 \to (K)\overline{0}gamma$ and $D^-0 \to \phi gamma$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 071101 (2008)
Measurement of the CP Asymmetry in $b \rightarrow s \gamma$ Using a Sum of Exclusive Final States
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW LETTERS

Measurement of time-dependent CP asymmetry in $B^0 \rightarrow K-S(0)\pi(0)\gamma$ decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 071102 (2008)

Observation and Polarization Measurements of $B^{+/-} \rightarrow \phi K^{-1(+/-)}$ and $B^{+/-} \rightarrow \phi K^{-2*+/-}$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

Observation of $e^+(e^-)\rightarrow \rho^+(\rho^-)$ near root $s=10.58$ GeV
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 071103 (2008)

Search for $B \rightarrow K^{-*}\nu(\bar{\nu})$ overbar decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 072007 (2008)

Measurement of ratios of branching fractions and CP-violating asymmetries of $B^{+/-} \rightarrow D^{*}K^{-+/-}$ decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 9 Article Number: 092002 (2008)

Observation of $B^0 \rightarrow \chi K-c0*(0)$ and evidence for $B^+ \rightarrow \chi K-c0*(+)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 9 Article Number: 091101 (2008)

Search for the highly suppressed decays $B^- \rightarrow K+\pi(-)\pi(-)$ and $B^- \rightarrow K-K\pi(+)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 9 Article Number: 091102 (2008)

Searches for $B$ Meson Decays to $\phi \phi$, $\phi \rho$, $\phi f(0)(980)$, and $f(0)(980)f(0)(980)$ Final States
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

Time-dependent and time-integrated angular analysis of $B \rightarrow \phi K-S(0)\pi(0)$ and $\phi K^{-+/-}\pi{+/-}$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 9 Article Number: 092008 (2008)
Measurement of the Branching Fractions of (B)\(\overline{\text{b}}\) \(\rightarrow\) \(D^{*}\(-\)(v)\overline{\text{b}}(l)\) Decays in Events Tagged by a Fully Reconstructed B Meson
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 26 Article Number: 261802 (2008)

Measurements of \(B((B)\overline{\text{b}}(0) \rightarrow \Lambda(c)(p)\overline{\text{b}}(l) and B(B^- \rightarrow \Lambda(c)(p)\overline{\text{b}}(l) \pi^(-)) \) and studies of \(\Lambda(c)\pi^(-)\) resonances
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 112003 (2008)

Measurements of branching fractions for \(B^+ \rightarrow \rho^+(\gamma)\) \(\gamma\), \(B^0 \rightarrow \rho^0(\gamma)\) \(\gamma\), and \(B^- \rightarrow \omega(\gamma)\)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 112001 (2008)

Study of hadronic transitions between \(Y\) states and observation of \(Y(4S) \rightarrow \eta(1S)\) decay
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 112002 (2008)

Graham, PJ
Paul John Graham
Researcher
The University of Edinburgh
Zero records

Grant, A
Alistair Grant
Researcher
The University of Edinburgh
Zero records

Grant, E
Eilidh Grant
Researcher
The University of Edinburgh
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Gray, A
Alan Gray
Researcher
The University of Edinburgh
Zero records

Greated, CA
Clive Greated
Academic
The University of Edinburgh
1 record
Quantitative visualization of ultrasonic acoustic waves by means of digital laser speckle-technologies
Greated, CA; Cosgrove, JA; Fomin, NA
JOURNAL OF ENGINEERING PHYSICS AND THERMOPHYSICS

Greaves, J
Jane Greaves
Academic
University of St Andrews
2 records

A Spitzer survey of young stellar objects in the Rosette Molecular Cloud
Poulton, CJ; Robitaille, TP; Greaves, JS; Bonnell, IA; Williams, JP; Heyer, MH
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Enhanced dust emission in the HL Tau disc: a low-mass companion in formation?
Greaves, JS; Richards, AMS; Rice, WKM; Muxlow, TWB
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Green, A
Andrew Green
Academic
University of St Andrews
1 record

Universal nonlinear conductivity close to an itinerant-electron quantum critical point
Hogan, PM; Green, AG
PHYSICAL REVIEW B
Volume: 78 Issue: 19 Article Number: 195104 (2008)

Greenaway, AH
Alan Greenaway
Academic
Heriot-Watt University
3 records

Three-dimensional particle imaging by defocusing method with an annular aperture
Lin, DJ; Angarita-Jaimes, NC; Chen, SY; Greenaway, AH; Towers, CE; Towers, DP
OPTICS LETTERS

Shaping ultrafast laser inscribed optical waveguides using a deformable mirror
Thomson, RR; Bockelt, AS; Ramsay, E; Beecher, S; Greenaway, AH; Kar, AK; Reid, DT
OPTICS EXPRESS

CANARY: the On-Sky NGS/LGS MOAO Demonstrator for EAGLE - art. no. 70150E
Myers, RM; Hubert, Z; Morris, TJ; Gendron, E; Dipper, NA; Kellerer, A; Goodsell, SJ; et al.
ADAPTIVE OPTICS SYSTEMS, PTS 1-3, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Hubin, N, Max, CE, Wizinowich, PL (Eds)
Gregoire, T
Thomas Gregoire
Researcher
The University of Edinburgh
Zero records

Gregor, C
Craig Gregor
Research Student
The University of Edinburgh
Zero records

**Current Research**
My research is part of a collaboration between IBM, the National Physical Laboratory and the University of Edinburgh. This work involves combining optical spectroscopic techniques such as Circular Dichroism & FTIR, with Molecular Dynamics simulations based on classical Newtonian forces, in order to probe the secondary structure of various biological molecules of interest.

Gregory, E
Eric Gregory
Researcher
University of Glasgow
1 record

*Methods for pseudoscalar flavor-singlet mesons with staggered fermions*
Gregory, EB; Irving, AC; Richards, CM; McNeile, C
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 065019 (2008)

Gregory, S
Scott Gregory
Researcher
University of St Andrews
4 records

*Coronal structure of the classical T Tauri star V2129 Oph*
Jardine, MM; Gregory, SG; Donati, JF
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*Magnetospheric accretion on the T Tauri star BP Tauri*
Donati, JF; Jardine, MM; Gregory, SG; Petit, P; Paletou, F; Bouvier, J; Dougados, C; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 386 Issue: 3 Pages: 1234-1251 (2008)

*The non-dipolar magnetic fields of accreting T Tauri stars*
Gregory, SG; Matt, SP; Donati, JF; Jardine, M
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*X-RAY FLARES IN ORION YOUNG STARS. II. FLARES, MAGNETOSPHERES, AND PROTOPLANETARY DISKS*
Getman, KV; Feigelson, ED; Micela, G; Jardine, MM; Gregory, SG; Garmire, GP
ASTROPHYSICAL JOURNAL
**Gregoryanz, E**  
Eugene Gregoryanz  
Researcher  
The University of Edinburgh  
2 records

*Structural transition in compressed amorphous sulfur*  
Sanloup, C; Gregoryanz, E; Degtyareva, O; Hanfland, M  
PHYSICAL REVIEW LETTERS  
Volume: 100 Issue: 7 Article Number: 075701 (2008)

*Structural diversity of sodium*  
Gregoryanz, E; Lundegaard, LF; McMahon, MI; Guillaume, C; Nelmes, RJ; Mezouar, M  
SCIENCE  

**Current Research**  
I currently study simple systems (e.g. nitrogen, hydrogen, oxygen, methane, sodium) under extreme conditions of pressures and temperatures by the means of optical and x-ray spectroscopy. I am also interested in the synthesis of novel materials with super-hard or super-conducting properties under extreme conditions.

**Grey, Z**  
Zane Grey  
Research Student  
University of the West of Scotland  
Zero records

**Griffin, C**  
Chris Griffin  
Researcher  
University of Strathclyde in Glasgow  
3 records

*CMOS driven micro-pixel LEDs integrated with single photon avalanche diodes for time resolved fluorescence measurements*  
Rae, BR; Griffin, C; McKendry, J; Girkin, JM; Zhang, HX; Gu, E; Renshaw, D; et al.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS  
Volume: 41 Issue: 9 Article Number: 094011 (2008)

*New light from hybrid inorganic-organic emitters*  
Belton, CR; Itskos, G; Heliotis, G; Stavrinou, PN; Lagoudakis, PG; Lupton, JM; et al.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS  
Volume: 41 Issue: 9 Article Number: 094006 (2008)

*Individually-addressable flip-chip AlInGaN micropixelated light emitting diode arrays with high continuous and nanosecond output power*  
Zhang, HX; Massoubre, D; McKendry, J; Gong, Z; Guilhabert, B; Griffin, C; Gu, E; et al.  
OPTICS EXPRESS  

**Griffin, PF**  
Paul Griffin  
Researcher  
University of Strathclyde in Glasgow  
1 record
Smooth inductively coupled ring trap for atoms
Griffin, PF; Riis, E; Arnold, AS
PHYSICAL REVIEW A
Volume: 77 Issue: 5 Article Number: 051402 (2008)

Grigera, S
Santiago Grigera
Academic
University of St Andrews
1 record

Effect of electron doping the metamagnet Sr3-yLa-yRu2O8
Farrell, J; Perry, RS; Rost, A; Mercure, JF; Kikugawa, N; Grigera, SA; Mackenzie, AP
PHYSICAL REVIEW B
Volume: 78 Issue: 18 Article Number: 180409 (2008)

Gripton, A
Adam Gripton
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Heriot-Watt University
Zero records

Grocutt, E
Emma Grocutt
Research Student
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Zero records

Gu, E
Erdan Gu
Researcher
University of Strathclyde in Glasgow
16 records

CMOS driven micro-pixel LEDs integrated with single photon avalanche diodes for time resolved fluorescence measurements
Rae, BR; Griffin, C; McKendry, J; Girkin, JM; Zhang, HX; Gu, E; Renshaw, D; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094011 (2008)

Design of diffractive optical elements for beam shaping of micro-pixellated LED light to a tightly focused spot
Liu, JS; Caley, AJ; Taghizadeh, MR; Gu, E; Girkin, JM; Dawson, MD
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094005 (2008)

Efficient flip-chip InGaN micro-pixellated light-emitting diode arrays: Promising candidates for micro-displays and colour conversion
Gong, Z; Gu, E; Jin, SR; Massoubre, D; Guilhabert, B; Zhang, HX; Dawson, MD; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094002 (2008)
Light emitting polymer blends and diffractive optical elements in high-speed direct laser writing of microstructures
Suyal, H; Waddie, AJ; Mackintosh, AR; Kuehne, AJC; Taghizadeh, MR; Pethrick, RA; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094009 (2008)

Micro-LED arrays: a tool for two-dimensional neuron stimulation
Poher, V; Grossman, N; Kennedy, GT; Nikolic, K; Zhang, HX; Gong, Z; Drakakis, EM; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094014 (2008)

New light from hybrid inorganic-organic emitters
Belton, CR; Itskos, G; Heliotis, G; Stavrinou, PN; Lagoudakis, PG; Lupton, JM; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094006 (2008)

Novel polymer systems for deep UV microlens arrays
Mackintosh, AR; Kuehne, AJC; Pethrick, RA; Guilhabert, B; Gu, E; Lee, CL; Dawson, MD; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094007 (2008)

Patterning and integration of polyfluorene polymers on micro-pixellated UVAlInGaN light-emitting diodes
Guilhabert, B; Gong, Z; Zhang, H; Belton, C; MackIntosh, A; Gu, E; Campoy-Quiles, M; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094008 (2008)

The 310-340nm ultraviolet light emitting diodes grown using a thin GaN interlayer on a high temperature AlN buffer
Wang, T; Lee, KB; Bai, J; Parbrook, PJ; Ranalli, F; Wang, Q; Airey, RJ; Cullis, AG; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094003 (2008)

Individually-addressable flip-chip AlInGaN micropixelated light emitting diode arrays with high continuous and nanosecond output power
Zhang, HX; Massoubre, D; McKendry, J; Gong, Z; Guilhabert, B; Griffin, C; Gu, E; et al.
OPTICS EXPRESS

Improved sectioning in a slit scanning confocal microscope
Poher, V; Kennedy, GT; Manning, HB; Owen, DM; Zhang, HXX; Gu, E; Dawson, MD; French, PMW; Neil, MAA
OPTICS LETTERS

Array-Format Microchip Semiconductor Disk Lasers
Laurand, N; Lee, CL; Gu, E; Hastie, JE; Kemp, AJ; Calvez, S; Dawson, MD
IEEE JOURNAL OF QUANTUM ELECTRONICS

Integration by self-aligned writing of nanocrystal/epoxy composites on InGaN micropixelated light-emitting diodes
Guilhabert, B; Elfstrom, D; Kuehne, AJC; Massoubre, D; Zhang, HX; Jin, SR; et al.
OPTICS EXPRESS
Etching and micro-optics fabrication in diamond using chlorine-based inductively-coupled plasma
Lee, CL; Gu, E; Dawson, MD; Friel, I; Scarsbrook, GA
DIAMOND AND RELATED MATERIALS, ELSEVIER SCIENCE SA

Longitudinal Mode Selection in a Fiber-Coupled Microlensed Microchip VECSEL
Laurand, N; Lee, CL; Gu, E; Calvez, S; Dawson, MD
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 2243-2244 (2008)

Selective wet etching of AlInN layers for nitride-based MEMS and photonic device structures - art. no. 69930E
Watson, IM; Xiong, C; Gu, E; Dawson, MD; Rizzi, F; Bejtka, K; Edwards, PR; Martin, RW
'Proceedings of the Conference on MEMS, MOEMS and Micromachining III', APR 09-10, 2008, Strasbourg, FRANCE
MEMS, MOEMS, AND MICROMACHING III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Urey, H (Eds), SPIE-INT SOC OPTICAL ENGINEERING

Current Research
Dr. Erdan Gu is a research team leader at Strathclyde University's Institute of Photonics. He obtained his PhD degree in 1992 and then worked on thin film magnetism in Cavendish Laboratory, Cambridge University. He joined the Institute of Photonics in 2002. His research interests focus mainly on epitaxial growth, in-situ and ex-situ characterizations, micro-fabrication, magnetic, optoelectronic and photonic devices and micro-systems. He has published more than 150 refereed journal papers and has managed and coordinated several multi-partner research programmes.

Guilhabert, B
Benoit Guilhabert
Research Student
University of Strathclyde in Glasgow
6 records

Efficient flip-chip InGaN micro-pixellated light-emitting diode arrays: Promising candidates for micro-displays and colour conversion
Gong, Z; Gu, E; Jin, SR; Massoubre, D; Guilhabert, B; Zhang, HX; Dawson, MD; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094002 (2008)

New light from hybrid inorganic-organic emitters
Belton, CR; Itskos, G; Heliotis, G; Stavrinou, PN; Lagoudakis, PG; Lupton, JM; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094006 (2008)

Novel polymer systems for deep UV microlens arrays
Mackintosh, AR; Kuehne, AJC; Pethrick, RA; Guilhabert, B; Gu, E; Lee, CL; Dawson, MD; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094007 (2008)
**Patterning and integration of polyfluorene polymers on micro-pixelated UVAlInGaN light-emitting diodes**
Guilhabert, B; Gong, Z; Zhang, H; Belton, C; Mackintosh, A; Gu, E; Campoy-Quiles, M; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094008 (2008)

**Individually-addressable flip-chip AlInGaN micropixelated light emitting diode arrays with high continuous and nanosecond output power**
Zhang, HX; Massoubre, D; McKendry, J; Gong, Z; Guilhabert, B; Griffin, C; Gu, E; et al.
OPTICS EXPRESS

**Integration by self-aligned writing of nanocrystal/epoxy composites on InGaN micropixelated light-emitting diodes**
Guilhabert, B; Elfstrom, D; Kuehne, AJC; Massoubre, D; Zhang, HX; Jin, SR; et al.
OPTICS EXPRESS

**Guillaume, C**
Christophe Guillaume
Researcher
The University of Edinburgh
1 record

**Structural diversity of sodium**
Gregoryanz, E; Lundegaard, LF; McMahon, MI; Guillaume, C; Nelmes, RJ; Mezouar, M
SCIENCE

**Guise, D**
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**Gunasekar, N**
Naresh Gunasekar
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Zero records

**Gunning, D**
Deborah Gunning
Research Student
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**Guo, X**
Xu Guo
Researcher
The University of Edinburgh
Zero records
Large sensitive-area NbN nanowire superconducting single-photon detectors fabricated on single-crystal MgO substrates
Miki, S; Fujiwara, M; Sasaki, M; Baek, B; Miller, AJ; Hadfield, RH; Nam, SW; Wang, Z
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 6 Article Number: 061116 (2008)

Demonstration of a quantum controlled-NOT gate in the telecommunications band
Chen, J; Altepeter, JB; Medic, M; Lee, KF; Gokden, B; Hadfield, RH; Nam, SW; Kumar, P
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 13 Article Number: 133603 (2008)

Designing high electron mobility transistor heterostructures with quantum dots for efficient, number-resolving photon detection
Rowe, MA; Gansen, EJ; Greene, MB; Rosenberg, D; Harvey, TE; Su, MY; Hadfield, RH; Nam, SW; Mirin, RP
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B
Volume: 26 Issue: 3 Pages: 1174-1177 (2008)

Solid immersion lens applications for nanophotonic devices
Serrels, KA; Ramsay, E; Dalgarno, PA; Gerardot, BD; O'Connor, JA; Hadfield, RH; Warburton, RJ; Reid, DT
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021854 (2008)

Investigation of Local Photon Detection Efficiency Distributions in Nanowire Superconducting Single-Photon Detectors
Baek, B; Gansen, EJ; Stevens, MJ; Mirin, RP; Nam, SW; Hadfield, RH; Dalgarno, PA; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 3233-3234 (2008)

Long distance quantum key distribution in optical fiber
Rosenberg, D; Peterson, CG; Harrington, J; Rice, P; Dallmann, N; Tyagi, KT; et al.
2008 CONFERENCE ON OPTICAL FIBER COMMUNICATION/NATIONAL FIBER OPTIC ENGINEERS CONFERENCE, VOLS 1-8
Pages: 2756-2758 (2008)
Current Research
Dr Hadfield completed his PhD research at the University of Cambridge in 2002. He then joined the US National Institute of Standards and Technology (NIST) in Boulder, Colorado. At NIST he focussed on developing a new type of high-speed superconducting single-photon counting detector. He has used these detectors in many groundbreaking photon-counting experiments, particularly in quantum information processing. He joined Heriot-Watt University in January 2007 as a Royal Society University Research Fellow and is now a Lecturer in Physics. He now leads a growing research group. He aims to develop next generation superconducting single-photon detectors and to implement them in photon-counting applications in partnership with UK and international collaborators.

Hadinia, B
Baharak Hadinia
Researcher
University of the West of Scotland
2 records

Excited states in the neutron-deficient nuclei Rn-197,Rn-199,Rn-201
Andgren, K; Cederwall, B; Uusitalo, J; Andreyev, AN; Freeman, SJ; Greenlees, PT; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 5 Article Number: 054303 (2008)

gamma-ray spectroscopy of At-197
Andgren, K; Jakobsson, U; Cederwall, B; Uusitalo, J; Back, T; Freeman, SJ; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 044328 (2008)

Hall Barrientos, P
Pauline Hall Barrientos
Research Student
The University of Edinburgh
Zero records

Hall, DR
Denis Hall
Academic
Heriot-Watt University
3 records

A model for "cold" laser ablation of green state ceramic materials
Nowak, KM; Baker, HJ; Hall, DR
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING

1.8kW diode laser system for fibre-delivery using brightness-enhanced diode stacks and a novel final beam-shaper - art. no. 68760W
Baker, HJ; Monjardin, JF; Kneip, P; Hall, DR
HIGH-POWER DIODE LASER TECHNOLOGY AND APPLICATIONS VI, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Zediker, MS (Eds)
Development of edge pumped Yb : YAG planar waveguide lasers - art. no. 68710Q
Baker, HJ; Monjardin, JF; Thomson, I; Trela, N; RValera, JD; Hall, DR
SOLID STATE LASERS XVII: TECHNOLOGY AND DEVICES, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkson, WA, Hodgson, NH, Shori, RK (Eds)

Halliday, I
Ian Halliday
Academic
The University of Edinburgh
Zero records

Hambly, NC
Nigel Hambly
Researcher
The University of Edinburgh
9 records

Near-infrared cross-dispersed spectroscopy of brown dwarf candidates in the Upper Sco association
Lodieu, N; Hambly, NC; Jameson, RF; Hodgkin, ST
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The WFCAM science archive
Hambly, NC; Collins, RS; Cross, NJG; Mann, RG; Read, MA; Sutorius, ETW; Bond, I; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

A new ultracool white dwarf discovered in the superCOSMOS sky survey
Rowell, NR; Kilic, M; Hambly, NC
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Southern infrared proper motion survey - III. Constraining the mass function of low mass stars
Deacon, NR; Nelemans, G; Hambly, NC
ASTRONOMY & ASTrophysics

L dwarfs in the Hyades
Hogan, E; Jameson, RF; Casewell, SL; Osbourne, SL; Hambly, NC
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The solar neighborhood. XX. Discovery and characterization of 21 new nearby white dwarf systems
Subasavage, JP; Henry, TJ; Bergeron, P; Dufour, P; Hambly, NC
ASTRONOMICAL JOURNAL
The UKIDSS Galactic Plane Survey
Lucas, PW; Hoare, MG; Longmore, A; Schroder, AC; Davis, CJ; Adamson, A; Bandyopadhyay, RM; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

A Python environment for database curation
Sutorius, E; Bryant, J; Collins, R; Cross, N; Hambly, N; Read, M
ASTRONOMICAL DATA ANALYSIS SOFTWARE AND SYSTEMS XVII, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Argyle, RW, Bunclark, PS, Lewis, JR (Eds)

Recalibration of data in the VDFS Science Archives
Cross, N; Hambly, N; Collins, R; Read, M; Sutorius, E
ASTRONOMICAL DATA ANALYSIS SOFTWARE AND SYSTEMS XVII, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Argyle, RW, Bunclark, PS, Lewis, JR (Eds)

Hamidov, H
Hayrullo Hamidov
Researcher
The University of Edinburgh
Zero records

Hamilton, AC
Alasdair Hamilton
Research Student
University of Glasgow
3 records

Imaging with parallel ray-rotation sheets
Hamilton, AC; Courtial, J
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Optical properties of a Dove-prism sheet
Hamilton, AC; Courtial, J
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Hamilton, C
Craig Hamilton
Research Student
University of Strathclyde in Glasgow
Zero records
Hammond G
Giles Hammond
Academic
University of Glasgow
3 records

Development of a second generation torsion balance based on a spherical superconducting suspension
Hammond, GD; Speake, CC; Matthews, AJ; Rocco, E; Pena-Arellano, F
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Noise analysis of a Howland current source
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Han, TPJ
Thomas Han
Academic
University of Strathclyde in Glasgow
2 records

Distributed optical fibre sensing of temperature using time-correlated two-photon excited fluorescence: theoretical overview
Dalzell, CJ; Han, TPJ; Ruddock, IS
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Hand, DP
Duncan Hand
Academic
Heriot-Watt University
10 records

Optimized nanosecond pulsed laser micromachining of Y-TZP ceramics
Wang, X; Shephard, JD; Dear, FC; Hand, DP
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Mid-infrared gas sensing using a photonic bandgap fiber
Gayraud, N; Kornaszewski, LW; Stone, JM; Knight, JC; Reid, DT; Hand, DP; MacPherson, WN
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Ng, JHG; Desmulliez, MPY; Prior, KA; Hand, DP
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Pages: 691-694 (2008)
Current Research

Duncan Hand is Professor of Applied Photonics at Heriot-Watt University, and his research focuses on applications of photonics in manufacturing; optical sensing; and fibre optic delivery of high peak power laser light. His work on manufacturing includes laser precision machining and laser joining of microsystems, and is a key component of the Scottish Manufacturing Institute, which was recently renewed until 2013 with a £7.2M grant from EPSRC. Work on high peak power delivery through novel fibres includes a collaboration with the University of Bath on photonic bandgap fibres, whilst current sensing activity includes gas sensing using hollow photonic bandgap fibres.

Hannah, IG
Iain Hannah
Researcher
University of Glasgow
9 records

Coronal jet observed by Hinode as the source of a He-3-rich solar energetic particle event
Nitta, NV; Mason, GM; Wiedenbeck, ME; Cohen, CMS; Krucker, S; Hannah, IG; Shimojo, M; Shibata, K
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An intriguing solar microflare observed with RHESSI, Hinode, and TRACE
Hannah, IG; Krucker, S; Hudson, HS; Christe, S; Lin, RP
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Christe, S; Hannah, IG; Krucker, S; McTiernan, J; Lin, RP
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Kontar, EP; Hannah, IG; MacKinnon, AL
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Chifor, C; Isobe, H; Mason, HE; Hannah, IG; Young, PR; Del Zanna, G; Krucker, S; et al.
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Hannes, WR
Wolf-Ruediger Hannes
Research Student
Heriot-Watt University
1 record

Finite-temperature Bell test for quasiparticle entanglement in the Fermi sea
Hannes, WR; Titov, M
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Hardy, J
Judy Hardy
Researcher
The University of Edinburgh
2 records

Ligand discovery on massively parallel systems
Shave, SR; Taylor, P; Walkinshaw, M; Smith, L; Hardy, J; Trew, A
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Harris, J
John Harris
Researcher
University of Strathclyde in Glasgow
3 records

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Optical trapping and manipulation of live T cells with a low numerical aperture lens
Harris, J; McConnell, G
OPTICS EXPRESS

Harrison, R
Bob Harrison
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6 records

Abnormally low threshold gain of stimulated Brillouin scattering in long optical fiber with feedback
Kovalev, VI; Harrison, RG
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Trends in stimulated Brillouin scattering and optical phase conjugation
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Emergence and collapse of coherent periodic emission in stochastic stimulated Brillouin scattering in an optical fiber
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Means for easy and accurate measurement of the stimulated Brillouin scattering gain coefficient in optical fiber
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Slow light in optical fiber using stimulated Brillouin scattering - art. no. 702415
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Pages: 2569-2570 (2008)
Harrison, W
William Harrison
Research Student
Heriot-Watt University
Zero records

Hart, A
Alistair Hart
Researcher
The University of Edinburgh
2 records

Localization and chiral symmetry in three flavor domain wall QCD
Antonio, DJ; Bowler, KC; Boyle, PA; Christ, NH; Clark, MA; Cohen, SD; Dawson, C; et al.
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Physical results from 2+1 flavor domain wall QCD and SU(2) chiral perturbation theory
Allton, C; Antonio, DJ; Aoki, Y; Blum, T; Boyle, PA; Christ, NH; Clark, MA; et al.
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Current Research
As a theoretical particle physicist, I use mathematical theories to study the fundamental properties of matter, understand how these shape the universe in which we live and to make predictions that can be tested in experiments, such as at the Large Hadron Collider at CERN. These experiments may, for example, discover new particles and forces. My work will contribute to the identification of this ‘Beyond the Standard Model’ physics.

Hassall, N
Neil Hassall
Research Student
University of Glasgow
6 records

Cross sections and beam asymmetries for (e)over-right-arrowp -> en pi(+) in the nucleon resonance region for 1.7 <= Q(2) <= 4.5 GeV2
Park, K; Burkert, VD; Kim, W; Aznauryan, IG; Minehart, R; Smith, LC; Joo, K; et al.
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Hassan, M
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Hastie, JE
Jennifer Hastie
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5 records

Short-wavelength GaInNAs/GaAs semiconductor disk lasers
Vetter, SL; Hastie, JE; Korpjarvi, VM; Puustinen, J; Guina, M; Okhotnikov, O; Calvez, S; Dawson, MD
ELECTRONICS LETTERS
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GaN diode-pumping of red semiconductor disk laser
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Laurand, N; Lee, CL; Gu, E; Hastie, JE; Kemp, AJ; Calvez, S; Dawson, MD
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Haughian, K
Karen Haughian
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Zero records

Hawkins, M
Mike Hawkins
Researcher
The University of Edinburgh
Zero records

Hay, KG
Kenneth Hay
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2 records

In-flight measurements of ambient methane, nitrous oxide and water using a quantum cascade laser based spectrometer
Hay, KG; Wright, S; Duxbury, G; Langford, N
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He, WL
Wenlong He
Researcher
University of Strathclyde in Glasgow
12 records

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Ronald, K; Speirs, DC; McConville, SL; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
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A fast multilayer window design tool, simulations and comparison with experiment
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Heavens, A
Alan Heavens
Academic
The University of Edinburgh
11 records

Finding evidence for massive neutrinos using 3D weak lensing
Kitching, TD; Heavens, AF; Verde, L; Serra, P; Melchiorri, A
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Berta, ZK; Jimenez, R; Heavens, AF; Panter, B
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Aubourg, E; Tojeiro, R; Jimenez, R; Heavens, A; Strauss, MA; Spergel, DN
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Jimenez, R; Heavens, AF; Panter, B; Tojeiro, R
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CLASSIFICATION AND DISCOVERY IN LARGE ASTRONOMICAL SURVEYS, AIP CONFERENCE PROCEEDINGS, BailerJones, CAL (Eds)
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Volume: 120 Pages: 22001-22001 (2008)

Current Research
From mid-2009 Pan-STARRS will undertake the largest ever weak lensing survey, co-lead by AFH, who will focus on 3D weak lensing analysis to determine the nature of Dark Energy. The Planck satellite will provide the best maps of the microwave background radiation; AFH will be applying the state-of-the-art optimised estimators for non-gaussianity detection, developed at the IfA with Dr Munshi, in order to shed light on mechanisms for the generation of fluctuations in the early universe thought to be responsible for the existence of structure. He is continuing pursuing medical imaging commercialisation of his patented MOPED data compression algorithm, through the formation of a spin-out company Blackford Analysis.

Hebb, L
Leslie Hebb
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8 records

The Monitor project: rotation of low-mass stars in NGC 2362 - testing the disc regulation paradigm at 5 Myr
Irwin, J; Hodgkin, S; Aigrain, S; Bouvier, J; Hebb, L; Irwin, M; Moraux, E
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The Monitor project: rotation of low-mass stars in the open cluster NGC 2547
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WASP-4b: A 12th magnitude transiting hot Jupiter in the southern hemisphere
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The pre-main-sequence eclipsing binary ASAS J052821+0338.5
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WASP-3b: a strongly irradiated transiting gas-giant planet
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WASP-5b: a dense, very hot Jupiter transiting a 12th-mag Southern-hemisphere star
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Shkolnik, E; Liu, MC; Reid, IN; Hebb, L; Cameron, AC; Torres, CA; Wilson, DM
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Hedley, G
Gordon Hedley
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2 records

Ultrafast luminescence in Ir(ppy)(3)
Hedley, GJ; Ruseckas, A; Samuel, IDW
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Iridium metal complexes as an unambiguous probe of intramolecular vibrational redistribution
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JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
Volume: 130 Issue: 36 Pages: 11842-11843 (2008)

Hein, J
Joachim Hein
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1 record
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Helfter, C
Carole Helfter
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Helling, C
Christiane Helling
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Consistent simulations of substellar atmospheres and nonequilibrium dust cloud formation
Helling, C; Dehn, M; Woitke, P; Hauschildt, PH
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**Hellwig, T**  
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Michal Hemmerling  
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**Hempler, N**  
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*High-power, (AlGaIn)(AsSb) semiconductor disk laser at 2.0 µm*  
Hopkins, JM; Hempler, N; Rosener, B; Schulz, N; Rattunde, M; Manz, C; Kohler, K; Wagner, J; Burns, D  
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*5W Mid-IR Optically-pumped Semiconductor Disk Laser*  
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*Semiconductor Disk Laser Pumped Cr2+:Chalcogenide Lasers*  
Hempler, N; Hopkins, JM; Rosener, B; Schulz, N; Rattunde, M; Wagner, J; Roy, UN; Burge, A; Burns, D  
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**Hendry, MA**  
Martin Hendry  
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3 records

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Teodoro, LFA; Diver, DA; Hendry, MA  
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All-sky search for periodic gravitational waves in LIGO S4 data
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Henrich, O
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2 records

Shear stresses of colloidal dispersions at the glass transition in equilibrium and in flow
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Hepburn, D
Derek Hepburn
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1 record

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Hernsdorf, J
Johannes Hernsdorf
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Zero records
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Volume: 390 Issue: 1 Pages: 149-167 (2008)
Hill, D
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Cross sections for hard exclusive electroproduction of pi(+) mesons on a hydrogen target
Airapetian, A; Akopov, N; Akopov, Z; Aschenauer, EC; Augustyniak, W; Avetissian, A; et al.
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Hill, J
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3 records

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Hill, S
Stephen Hill
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4 records

Fiber-optical analog of the event horizon
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Fiber-optical analogue of the event horizon
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Cross sections for hard exclusive electroproduction of pi(+) mesons on a hydrogen target
Airapetian, A; Akopov, N; Akopov, Z; Aschenauer, EC; Augustyniak, W; Avetissian, A; et al.
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Evidence for a transverse single-spin asymmetry in leptoproduction of pi(+)pi(-) pairs
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Measurement of azimuthal asymmetries with respect to both beam charge and transverse target polarization in exclusive electroproduction of real photons
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Measurement of parton distributions of strange quarks in the nucleon from charged-kaon production in deep-inelastic scattering on the deuteron
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OCT 15-20, 2007, Trieste, ITALY
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ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

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Performance of the SCUBA-2 dilution refrigerator - art. no. 70200Y
Hollister, M; Woodraft, A; Holland, W; Bintley, D
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Holmes, AT
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1 record

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MAY 13-18, 2007, Houston, TX
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Volume: 403 Issue: 5-9 Pages: 1298-1300 (2008)

Holmes, D
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Pomeranchuk instability: Symmetry-breaking and experimental signatures  
Quintanilla, J; Hooley, C; Powell, BJ; Schofield, AJ; Haque, M  
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Hopkins, JM  
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High-power, (AlGaIn)(AsSb) semiconductor disk laser at 2.0 μm  
Hopkins, JM; Hempler, N; Rosener, B; Schulz, N; Rattunde, M; Manz, C; Kohler, K; Wagner, J; Burns, D  
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**5W Mid-IR Optically-pumped Semiconductor Disk Laser**
Hopkins, JM; Hempler, N; Rosener, B; Schulz, N; Rattunde, M; Manz, C; Kohler, K; Wagner, J; Burns, D

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**Semiconductor Disk Laser Pumped Cr²⁺:Chalcogenide Lasers**
Hempler, N; Hopkins, JM; Rosener, B; Schulz, N; Rattunde, M; Wagner, J; Roy, UN; Burge, A; Burns, D

2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE

**Horne, K**
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7 records

*Discovery of a Jupiter/ Saturn analog with gravitational microlensing*
Gaudi, BS; Bennett, DP; Udalski, A; Gould, A; Christie, GW; Maoz, D; Dong, S; et al.

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*WASP-4b: A 12th magnitude transiting hot Jupiter in the southern hemisphere*
Wilson, DM; Gillon, M; Hellier, C; Maxted, PFL; Pepe, F; Queloz, D; Anderson, DR; et al.

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*WASP-3b: a strongly irradiated transiting gas-giant planet*
Pollacco, D; Skillen, I; Cameron, AC; Loeillet, B; Stempels, HC; Bouchy, F; et al.

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*WASP-5b: a dense, very hot Jupiter transiting a 12th-mag Southern-hemisphere star*
Anderson, DR; Gillon, M; Hellier, C; Maxted, PFL; Pepe, F; Queloz, D; Wilson, DM; et al.

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ASTRONOMISCHE NACHRICHTEN

Horsley, R
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4 records

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PHYSICAL REVIEW LETTERS

Perturbative determination of c(SW) for plaquette and Symanzik gauge action and stout link clover fermions
Horsley, R; Perl, H; Rakow, PEL; Schierholz, G; Schiller, A
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 054504 (2008)

Spin structure of the pion
Brommel, D; Diehl, M; Gockeler, M; Hagler, P; Horsley, R; Nakamura, Y; Pleiter, D; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 12 Article Number: 122001 (2008)

Hadronic structure from the lattice
Brommel, D; Gockeler, M; Hagler, P; Horsley, R; Nakamura, Y; Ohtani, M; Pleiter, D; et al.
'Proceedings of the SPIN Praha 2007 Meeting', JUL 08-17, 2007, Prague, CZECH REPUBLIC
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS

Current Research
Hadrons, for example the proton, are composed of quarks tightly bound together by the gluons of Quantum Chromodynamics (QCD). These bound states may be studied using lattice gauge theories, i.e. by using computational Monte Carlo techniques. My recent research interests have focused on studying the fundamental parameters of QCD and in particular the coupling constant between the quarks and gluons and the quark masses. Various hadron matrix elements that describe the internal structure of the particle have been investigated.

Hossack, WJ
Will Hossack
Academic
The University of Edinburgh
1 record

Molecular mechanisms of cryoprotection in aqueous proline: Light scattering and molecular dynamics simulations
Troitzsch, RZ; Vass, H; Hossack, WJ; Martyna, GJ; Crain, J
JOURNAL OF PHYSICAL CHEMISTRY B
All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

The effects of heating on mechanical loss in tantala/silica optical coatings
Abernathy, MR; Harry, GM; Travasso, F; Martin, I; Reid, S; Rowan, S; Hough, J; et al.
PHYSICS LETTERS A

Measurements of a low-temperature mechanical dissipation peak in a single layer of Ta2O5
doped with TiO2
Martin, I; Armandula, H; Comtet, C; Fejer, MM; Gretarsson, A; Harry, G; Hough, J; et al.
EUROPEAN JOURNAL OF PHYSICS
Volume: 29 Issue: 2 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the
second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikai, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron
star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikai, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS
**First joint search for gravitational-wave bursts in LIGO and GEO 600 data**
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; *et al.*
CLASSICAL AND QUANTUM GRAVITY

**Astrophysically triggered searches for gravitational waves: status and prospects**
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; *et al.*
CLASSICAL AND QUANTUM GRAVITY, IOP PUBLISHING LTD
Volume: 25 Issue: 11 Article Number: 114051 (2008)

**Current Research**
My research is aimed at the detection of gravitational waves from astrophysical sources. In particular I am working on improving the performance of gravitational wave detectors through the reduction of thermal noise and have particular interests in the GEO 600 detector in Germany, the transfer of GEO technology to the US LIGO project, and the design of a third generation low temperature detector system.

**Hourahine, B**
Ben Hourahine
Academic
University of Strathclyde in Glasgow
2 records

**Luminescence spectroscopy of Eu-implanted zinblende GaN**
Roqan, IS; O'Donnell, KP; Trager-Cowan, C; Hourahine, B; Martin, RW; Lorenz, K; *et al.*
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS

**Theoretical study of rare earth point defects in GaN**
Sanna, S; Hourahine, B; Frauenheim, T; Gerstmann, U
'Proceedings of the 7th International Conference on Nitride Semiconductors (ICNS-7)', SEP 16-21, 2007, Las Vegas, NV
PHYSICA STATUS SOLIDI C - CURRENT TOPICS IN SOLID STATE PHYSICS, VOL 5, NO 6, PHYSICA STATUS SOLIDI C-CURRENT TOPICS IN SOLID STATE PHYSICS, Palacios, T, Jena, D (Eds)
Volume: 5 Issue: 6 Pages: 2358-2360 (2008)

**Current Research**
My research interests are in the fields of computational and theoretical materials science and condensed matter. I have a long standing interest in the behaviour of hydrogen impurities in semiconductors and more recently have become interested in novel magnetic and spintronics systems. I'm also member of the RAINBOW European network which aims to develop high quality indium nitride based materials for applications in high electron mobility devices and high efficiency optoelectronics. Additionally I'm a member of the European COST network "Designing Novel Materials for Nanodevices: From Theory to Practise".

**Houston, S**
Sarah Houston
Research Student
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Howdle, D
David Howdle
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Huang, T
Tao Huang
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Zero records

Hudelist, F
Florian Hudelist
Research Student
Heriot-Watt University
4 records

Comparison of different simulation methods for multi plane, computer generated holograms - art. no. 69920M
Kampfe, T; Hudelist, F; Waddie, AJ; Taghizadeh, MR; Kley, EB; Tunnermann, A

Novel method for fabrication of volume 2D photonic crystals - art. no. 698904
Buczynski, R; Kujawa, I; Filipkowski, A; Pysz, D; Hudelist, F; Waddie, A; Stepien, R; Taghizadeh, M
'Proceedings of the Conference on Photonic Crystal Materials and Devices VIII', APR 08-10, 2008, Strasbourg, FRANCE
PHOTONIC CRYSTAL MATERIALS AND DEVICES VIII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), DeLaRue, RM, Lopez, C, Midrio, M, Viktorovitch, P (Eds)

Photonic glass - novel method for fabrication of volume 2D photonic crystals - art. no. 71200M
Kujawa, I; Filipkowski, A; Pysz, D; Hudelist, F; Waddie, A; Stepien, R; Buczynski, R; Taghizadeh, M
'Proceedings of the 11th Conference on Optical Fibers and Their Applications', JAN 30-FEB 02, 2008, Bialowieza, POLAND

Simulation and optimisation methods for non-periodic subwavelength structures - art. no. 699210
Hudelist, F; Waddie, AJ; Busczynski, R; Taghizadeh, MR
Hughes, D
David Hughes
Research Student
University of Strathclyde in Glasgow
Zero records

Hume, A
Alastair Hume
Researcher
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Zero records

Hunt, NT
Neil Hunt
Researcher
University of Strathclyde in Glasgow
3 records

Structure and vibrational dynamics of model compounds of the [FeFe]-hydrogenase enzyme system via ultrafast two-dimensional infrared spectroscopy
Stewart, AI; Clark, IP; Towrie, M; Ibrahim, SK; Parker, AW; Pickett, CJ; Hunt, NT
JOURNAL OF PHYSICAL CHEMISTRY B

Multiple-timescale photoreactivity of a model compound related to the active site of [FeFe]-hydrogenase
Ridley, AR; Stewart, AI; Adamczyk, K; Ghosh, HN; Kerkeni, B; Guo, ZX; Nibbering, ETJ; et al.
INORGANIC CHEMISTRY

Invited Article: Ultrafast 2D-IR Spectroscopy - Method and Applications
Hunt, NT
SPECTROSCOPY EUROPE
(2008)

Current Research
The focus of NTH's research is applications of ultrafast multidimensional infrared spectroscopy to the understanding of the chemical physics of solution-phase reactions of biomolecules. Particular areas of interest include the structure and function of the iron-only hydrogenase enzymes and the dynamics of protein ligand binding in relation to drug design and function. NTH's group are also employing transient 2D-IR spectroscopy as a means of following reactions in real time.

Hutauruk, PTP
Parada (TP) Hutauruk
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Huttner, S
SH Huttner
Researcher
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11 records
All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikai, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Techniques in the optimization of length sensing and control systems for a three-mirror coupled cavity
Huttner, SH; Barr, BW; Taylor, JR; Plissi, MV; Sorazu, B; Strain, KA
CLASSICAL AND QUANTUM GRAVITY
Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Huxley, A
Andrew Huxley
Academic
The University of Edinburgh
3 records

The Fermi surface and f-valence electron count of UPt3
McMullan, GJ; Rourke, PMC; Norman, MR; Huxley, AD; Doiron-Leyraud, N; Flouquet, J; et al.
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 053029 (2008)

Optical spectra of the heavy fermion uniaxial ferromagnet UGe2
Guritanu, V; Armitage, NP; Tediosi, R; Saxena, SS; Huxley, A; Marel, DD
PHYSICAL REVIEW B
Volume: 78 Issue: 17 Article Number: 172406 (2008)

High pressure synthesis of late rare earth RFeAs(O,F) superconductors; R = Tb and Dy
Bos, JWG; Penny, GBS; Rodgers, JA; Sokolov, DA; Huxley, AD; Attfield, JP
CHEMICAL COMMUNICATIONS
Issue: 31 Pages: 3634-3635 (2008)

Current Research
Professor Andrew Huxley's research concerns the low-temperature behaviour of strongly correlated electrons in metals, including superconductivity and magnetism. An important part of this is the search for totally new quantum ordered states, work that involves synthesising exceptionally pure single crystals, developing low-temperature measurement apparatus to perform measurements at extreme magnetic fields and pressures and the use of neutron and X-ray scattering. Further information can be found at http://www.ph.ed.ac.uk/~ahuxley/QOE/.

Huxor, A
Avon Huxor
Researcher
The University of Edinburgh
5 records

The Hubble Space Telescope advanced camera for surveys coma cluster survey. I. Survey objectives and design
Carter, D; Goudfrooij, P; Mobasher, B; Ferguson, HC; Puzia, TH; Aguerri, AL; et al.
ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES

AGB stars as tracers of metallicity and mean age across M 33
Cioni, MRL; Irwin, M; Ferguson, AMN; McConnachie, A; Conn, BC; Huxor, A; Ibata, R; Lewis, G; Tanvir, N
ASTRONOMY & ASTRONOMICS

The kinematic footprints of five stellar streams in Andromeda's halo
Chapman, SC; Ibata, R; Irwin, M; Koch, A; Letarte, B; Martin, N; Collins, M; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
A TRIO OF NEW LOCAL GROUP GALAXIES WITH EXTREME PROPERTIES
McConnachie, AW; Huxor, A; Martin, NF; Irwin, MJ; Chapman, SC; Fahlman, G; et al.
ASTROPHYSICAL JOURNAL

Metallicity and Mean Age Across M 33
Cioni, MRL; Irwin, M; Ferguson, AMN; McConnachie, A; Conn, BC; Huxor, A; Ibata, R; Lewis, G; Tanvir, N
Proceedings of the Galaxies in the Local Volume Symposium, JUL 08-13, 2007, Sydney, AUSTRALIA
GALAXIES IN THE LOCAL VOLUME, Astrophysics and Space Science Proceedings, Koribalski, BS, Jerjen, H (Eds)
Pages: 255-258 (2008)

Illingworth, M
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Researcher
The University of Edinburgh
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Infas, H
Haja Mohideen Mohamed Infas
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University of St Andrews
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Ireland, DG
Dave Ireland
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13 records

Cross sections and beam asymmetries for (e)\overrightarrow{p} \rightarrow e n \pi(+) in the nucleon resonance region for 1.7 <= Q(2) <= 4.5 GeV2
Park, K; Burkert, VD; Kim, W; Aznauryan, IG; Minehart, R; Smith, LC; Joo, K; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 1 Article Number: 015208 (2008)

Bayesian analysis of pentaquark signals from CLAS data
Ireland, DG; McKinnon, B; Protopopescu, D; Ambrozewicz, P; Anghinolfi, M; Asryan, G; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 5 Article Number: 052001 (2008)

Measurement of deeply virtual compton scattering beam-spin asymmetries
Girod, FX; Niyazov, RA; Avakian, H; Ball, J; Bedlinskiy, I; Burkert, VD; De Masi, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 16 Article Number: 162002 (2008)

Measurement of ep -> ep \pi(0) beam spin asymmetries above the resonance region
De Masi, R; Garcon, M; Zhao, B; Amaryan, MJ; Ambrozewicz, P; Anghinolfi, M; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 4 Article Number: 042201 (2008)
Polarized structure function $\sigma(')(LT)$ for $H-1((e)\rightarrow,e(')K(+)\Lambda$ in the nucleon resonance region
Nasseripour, R; Raue, BA; Carman, DS; Ambrozewicz, P; Amarian, MJ; Anciant, E; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 6 Article Number: 065208 (2008)

Comment on "Bayesian Analysis of Pentaquark Signals from CLAS Data" - Ireland and Protopopescu reply
Ireland, DG; Protopopescu, D
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 2 Article Number: 029102 (2008)

Light vector mesons in the nuclear medium
Wood, MH; Nasseripour, R; Weygand, DP; Djalali, C; Tur, C; Mosel, U; Muehlich, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015201 (2008)

Ratios of $N-15/C-12$ and $He-4/C-12$ inclusive electroproduction cross sections in the nucleon resonance region
Bosted, PE; Fersch, R; Adams, G; A Marian, M; Anefalos, S; Anghinoit, M; Asryan, G; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015202 (2008)

Electroproduction of $\phi(1020)$ mesons at $1.4 < Q(2) < 3.8$ GeV$^2$ measured with the CLAS spectrometer
Santoro, JP; Smith, ES; Garcon, M; Guidal, M; Laget, JM; Weiss, C; Adams, G; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 2 Article Number: 025210 (2008)

Electroexcitation of the Roper resonance for $1.7 < Q(2) < 4.5$ GeV$^2$ in $ep \rightarrow ep \pi(0)$ measured with the CLAS spectrometer
Aznauryan, IG; Burkert, VD; Kim, W; Par, K; Adams, G; Amarian, MJ; Ambrozewicz, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045209 (2008)

First measurement of target and double spin asymmetries for $ep \rightarrow ep \phi(0)$ in the nucleon resonance region above the Delta(1232)
Biselli, AS; Burkert, VD; Amarian, MJ; Asryan, G; Avakian, H; Bagdasaryan, H; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045204 (2008)

A Regge-plus-resonance approach to kaon production on the nucleon
Ryckebusch, J; Corthals, T; Vancraeyveld, P; Van Cauteren, T; Ireland, DG
'Proceedings of the 11th Workshop on the Physics of Excited Nucleons', SEP 05-08, 2007, Bonn, GERMANY
PROCEEDINGS OF THE 11TH WORKSHOP ON THE PHYSICS OF EXCITED NUCLEONS,
Hammer, HW, Kleber, V, Thoma, U, Schmiedan, H (Eds)
Pages: 247-250 (2008)

Photoproduction and rescattering of polarized hyperons in deuterium
Nadel-Turonski, P; Berman, BL; Ilieva, Y; Ireland, DG; Tkabladze, A
'Proceedings of the 20th European Conference on Few-Body Problems in Physics', SEP 10-14, 2007,
Pisa, ITALY
FEW-BODY SYSTEMS, SPRINGER WIEN
Islam, R
Ranaul Islam
Researcher
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Zero records

Issac, R
Riju Issac
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3 records

Quantum path contribution to high-order harmonic spectra
Brunetti, E; Issac, R; Jaroszynski, DA
PHYSICAL REVIEW A
Volume: 77 Issue: 2 Article Number: 023422 (2008)

Pulse-duration dependency of femtosecond laser refractive index modification in poly(methyl methacrylate)
Baum, A; Scully, PJ; Perrie, W; Jones, D; Issac, R; Jaroszynski, DA
OPTICS LETTERS

High energy terahertz pulse emission from GaAs illuminated by a femtosecond laser - art. no. 68401B
Sun, JH; Gallacher, JG; Limos, N; Issac, R; Dias, JM; Huang, ZX; Jaroszynski, DA
'Proceedings of the Conference on Terahertz Photonics', NOV 12-14, 2007, Beijing, PEOPLES R CHINA
TERAHERTZ PHOTONICS, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Zhang, C, Zhang, XC (Eds)

Isted, G
Greg Isted
Researcher
The University of Edinburgh
Zero records

Ives, D
Derek Ives
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The University of Edinburgh
3 records

Precision Radial Velocity Spectrograph - art. no. 70140Y
Jones, HRA; Rayner, J; Ramsey, L; Henry, D; Dent, B; Montgomery, D; Vick, A; et al.
'Proceedings of the Conference on Ground-Based and Airborne Instrumentation for Astronomy II', JUN 23-28, 2008, Marseille, FRANCE
GROUND-BASED AND AIRBORNE INSTRUMENTATION FOR ASTRONOMY II, PTS 1-4, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), McLean, IS, Casali, MM (Eds)
ULTRASPEC - An Electron Multiplication CCD camera for very low light level high speed astronomical spectrometry - art. no. 70210B
Ives, D; Bezawada, N; Dhillon, V; Marsh, T
HIGH ENERGY, OPTICAL, AND INFRARED DETECTORS FOR ASTRONOMY III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Dorn, DA, Holland, AD (Eds)
Volume: 7021 Pages: B210-B210 (2008)

ULTRASPEC: High-speed spectroscopy with zero readout noise
Dhillon, VS; Marsh, TR; Copperwheat, C; Bezawada, N; Ives, D; Vick, A; O’Brien, K
UNIVERSE AT SUB-SECOND TIMESCALES: HIGH TIME RESOLUTION ASTROPHYSICS, AIP CONFERENCE PROCEEDINGS, Phelan, D, Ryan, O, Shearer, A (Eds)

Jack, B
Barry Jack
Research Student
University of Glasgow
2 records

Angular diffraction
Jack, B; Padgett, MJ; Franke-Arnold, S
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 103013 (2008)

Fourier relationship between the angle and angular momentum of entangled photons
Jha, AK; Jack, B; Yao, E; Leach, J; Boyd, RW; Buller, GS; Barnett, SM; Franke-Arnold, S; Padgett, MJ
PHYSICAL REVIEW A
Volume: 78 Issue: 4 Article Number: 043810 (2008)

Jackson, A
Adrian Jackson
Researcher
The University of Edinburgh
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Jackson, B
Brendan Jackson
Research Student
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Jackson, M
Michael Jackson
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Jappy, C
Christine Jappy
Research Student
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Zero records

Jardine, M
Moira Jardine
Academic
University of St Andrews
12 records

The stable magnetic field of the fully convective star V374 Peg
Morin, J; Donati, JF; Forveille, T; Delfosse, X; Dobler, W; Petit, P; Jardine, MM; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 384 Issue: 1 Pages: 77-86 (2008)

Magnetic cycles of the planet-hosting star tau Bootis
Donati, JF; Moutou, C; Fares, R; Bohlender, D; Catala, C; Deleuil, M; Shkolnik, E; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Coronal structure of the classical T Tauri star V2129 Oph
Jardine, MM; Gregory, SG; Donati, JF
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Magnetospheric accretion on the T Tauri star BP Tauri
Donati, JF; Jardine, MM; Gregory, SG; Petit, P; Paletou, F; Bouvier, J; Dougados, C; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 386 Issue: 3 Pages: 1234-1251 (2008)

The first magnetic maps of a pre-main-sequence binary star system - HD 155555
Dunstone, NJ; Hussain, GAJ; Cameron, AC; Marsden, SC; Jardine, M; Stempels, HC; Vlez, JCR; Donati, JF
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Differential rotation on both components of the pre-main-sequence binary system HD 155555
Dunstone, NJ; Hussain, GAJ; Cameron, AC; Marsden, SC; Jardine, M; Barnes, JR; Velez, JCR; Donati, JF
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Large-scale magnetic topologies of early M dwarfs
Donati, JF; Morin, J; Petit, P; Delfosse, X; Forveille, T; Auriere, M; Cabanac, R; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Large-scale magnetic topologies of mid M dwarfs
Morin, J; Donati, JF; Petit, P; Delfosse, X; Forveille, T; Albert, L; Auriere, M; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The non-dipolar magnetic fields of accreting T Tauri stars
Gregory, SG; Matt, SP; Donati, JF; Jardine, M
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Radio emission from exoplanets: the role of the stellar coronal density and magnetic field strength
Jardine, M; Cameron, AC
ASTRONOMY & ASTROPHYSICS

X-RAY FLARES IN ORION YOUNG STARS. II. FLARES, MAGNETOSPHERES, AND PROTOPLANETARY DISKS
Getman, KV; Feigelson, ED; Micela, G; Jardine, MM; Gregory, SG; Garmire, GP
ASTROPHYSICAL JOURNAL

Coronal structure of pre-main sequence stars
Jardine, M
Proceedings of the 14th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun', NOV 05-10, 2006, Pasadena, CA
14TH CAMBRIDGE WORKSHOP ON COOL STARS, STELLAR SYSTEMS, AND THE SUN, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, VanBelle, G (Eds)

Jaroszynski, DA
Dino Jaroszynski
Academic
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10 records

A compact synchrotron radiation source driven by a laser-plasma wakefield accelerator
Schlenvoigt, HP; Haupt, K; Debus, A; Budde, F; Jackel, O; Pfotenhauer, S; Schwoerer, H; et al.
NATURE PHYSICS

Limits of validity of photon-in-cell simulation techniques
Reitsma, AJW; Jaroszynski, DA
PHYSICS OF PLASMAS
Volume: 15 Issue: 2 Article Number: 023105 (2008)

Quantum path contribution to high-order harmonic spectra
Brunetti, E; Issac, R; Jaroszynski, DA
PHYSICAL REVIEW A
Volume: 77 Issue: 2 Article Number: 023422 (2008)

Laser-driven acceleration of electrons in a partially ionized plasma channel
Rowlands-Rees, TP; Kamperidis, C; Kneip, S; Gonsalves, AJ; Mangles, SPD; Gallacher, JG; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 10 Article Number: 105005 (2008)
Pulse-duration dependency of femtosecond laser refractive index modification in poly(methyl methacrylate)
Baum, A; Scully, PJ; Perrie, W; Jones, D; Issac, R; Jaroszynski, DA
OPTICS LETTERS

Monoenergetic electronic beam production using dual collinear laser pulses
Thomas, AGR; Murphy, CD; Mangles, SPD; Dangor, AE; Foster, P; Gallacher, JG; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 25 Article Number: 255002 (2008)

Propagation of a short intense laser pulse in a curved plasma channel
Reitsma, A; Jaroszynski, D
IEEE TRANSACTIONS ON PLASMA SCIENCE

Synchrotron radiation from laser-accelerated monoenergetic electrons
Schlenvoigt, HP; Haupt, K; Debus, A; Budde, F; Jaeckel, O; Pfotenhauer, S; et al.
IEEE TRANSACTIONS ON PLASMA SCIENCE

High energy terahertz pulse emission from GaAs illuminated by a femtosecond laser - art. no. 68401B
Sun, JH; Gallacher, JG; Limos, N; Issac, R; Dias, JM; Huang, ZX; Jaroszynski, DA
'Proceedings of the Conference on Terahertz Photonics', NOV 12-14, 2007, Beijing, PEOPLES R CHINA
TERAHERTZ PHOTONICS, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Zhang, C; Zhang, XC (Eds)

Laser-plasma Interactions
Jaroszynski, DA; Cairns, RA; Bingham, R
CRC PRESS, Jaroszynski, DA; Cairns, RA; Bingham, R (Eds) (2008)

Jeffers, J
John Jeffers
Researcher
University of Strathclyde in Glasgow
1 record

A closed-system approach to quantum retrodiction in open systems
Scroggie, AJ; Jeffers, J
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS
Current Research
Research spans two main topics at present: (1) Optical postselection, in which states of light useful for quantum information processing are manufactured based on the results of partial measurement of the system. Applications of a new measure of fidelity to postselection, and simple ways of increasing this fidelity. (2) Measurements and open quantum systems, which looks at the application of open system master equations to repeatedly measured systems. Simulation, the relation of the weak rapid measurement limit to the classical world. Application to friction/ Brownian motion and the arrow of time.

**Jeppsson, J**
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Zero records

**Jin, SR**
Shirong Jin
Researcher
University of Strathclyde in Glasgow
3 records

*Efficient flip-chip InGaN micro-pixelated light-emitting diode arrays: Promising candidates for micro-displays and colour conversion*
Gong, Z; Gu, E; Jin, SR; Massoubre, D; Guilhabert, B; Zhang, HX; Dawson, MD; *et al.*
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094002 (2008)

*Integration by self-aligned writing of nanocrystal/epoxy composites on InGaN micro-pixelated light-emitting diodes*
Guilhabert, B; Elfstrom, D; Kuehne, AJC; Massoubre, D; Zhang, HX; Jin, SR; *et al.*
OPTICS EXPRESS

*Characterisation of an InAs Quantum Dot Semiconductor Disk Laser*
Schlosser, P; Calvez, S; Hastie, JE; Jin, SR; Germann, TD; Strittmatter, A; *et al.*
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 1810-1811 (2008)

**Johnson, C**
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1 record
**Johnston, R**
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**Johnstone, JR**
Russell Johnstone  
Research Student  
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Zero records

**Jones, AP**
Andrew Jones  
Research Student  
The University of Edinburgh  
1 record

*Molecular dynamics simulations of the martensitic phase transition process*
Ackland, GJ; Jones, AP; Noble-Eddy, R  
'Proceedings of the 7th European Symposium on Martensitic Transformations', SEP 10-15, 2006, Bochum, GERMANY  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING  
Volume: 481 Pages: 11-17 (2008)

**Current Research**
My current research is in Quantum Drude Oscillators (QDO's), a unified approach to molecular polarisation and dispersion attractions, for molecular dynamics simulations. This treatment is especially relevant to complex many-body environments involving biological molecules and surfaces, where current models, using less detailed physics, tend to fail. The current goal is to construct a model of water using QDO's. Molecular dynamics with QDO's requires Path Integral Molecular Dynamics (PIMD), an extension to classical molecular dynamics that evolves a connected chain of states, to approximate the Feynman path integral. Much of our current work focusses on increasing the computational efficiency of PIMD for QDO's (especially reducing the length of the chain), in order to make it attractive for widespread use.

**Jones, JDC**
Julian Jones  
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Heriot-Watt University  
3 records
Pulsed laser micromachining of yttria-stabilized zirconia dental ceramic for manufacturing
Dear, FC; Shephard, JD; Wang, X; Jones, JDC; Hand, DP
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY
Volume: 5 Issue: 2 Pages: 188-197 (2008)

Anisotropic fiber Bragg gratings inscribed by high-intensity femtosecond-UV pulses:
Manufacturing technology and strain characterization for sensing applications
O'Byrne, RP; Sergeyev, SV; Flavin, DA; Slattery, SA; Nikogosyan, DN; Jones, JDC
Proceedings of the 3rd European Workshop on Optical Fiber Sensors, 2007, Naples, ITALY
IEEE SENSORS JOURNAL
Volume: 8 Issue: 7-8 Pages: 1256-1263 (2008)

Radial deformation measurement of a cylinder under compression using multicore fibre - art. no. 70040G
Fender, A; MacPherson, WN; Maier, RRJ; Barton, JS; Jones, JDC; Ellis, KS; Leppard, CL; et al.
19TH INTERNATIONAL CONFERENCE ON OPTICAL FIBRE SENSORS, PTS 1 AND 2, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Sampson, D, Collins, S, Oh, K, Yamauchi, R (Eds)

Jones, R
Russell Jones
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11 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
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PHYSICAL REVIEW D
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A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
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Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

203
Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
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PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
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CLASSICAL AND QUANTUM GRAVITY

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CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

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Electronic superlattices in corrugated graphene
Isacsson, A; Jonsson, LM; Kinaret, JM; Jonson, M
PHYSICAL REVIEW B
Volume: 77 Issue: 3 Article Number: 035423 (2008)

The influence of electro-mechanical effects on resonant electron tunneling through small carbon nano-peapods
Krive, IV; Ferone, R; Shekhter, RI; Jonson, M; Utko, P; Nygard, J
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Volume: 10 Article Number: 043043 (2008)

Giant shot noise due to mechanical transportation of spin-polarized electrons
Gorelik, LY; Kulinich, SI; Shekhter, RI; Jonson, M; Vinokur, VM
PHYSICAL REVIEW B
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Self-organization of irregular nanoelectromechanical vibrations in multimode shuttle structures
Jonsson, LM; Santandrea, F; Gorelik, LY; Shekhter, RI; Jonson, M
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Volume: 100 Issue: 18 Article Number: 186802 (2008)
High-temperature excess current and quantum suppression of electronic backscattering
Sonne, G; Gorelik, LY; Shekhter, RI; Jonson, M
EPL
Volume: 84 Issue: 2 Article Number: 027002 (2008)

Superconducting pumping of nanomechanical vibrations
Sonne, G; Shekhter, RI; Gorelik, LY; Kulinich, SI; Jonson, M
PHYSICAL REVIEW B
Volume: 78 Issue: 14 Article Number: 144501 (2008)

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Kains, N
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Limits on additional planetary companions to OGLE 2005-BLG-390L
Kubas, D; Cassan, A; Dominik, M; Bennett, DP; Wambsganss, J; Brillant, S; Beaulieu, JP; et al.
ASTRONOMY & ASTROPHYSICS

Kaiser, R
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Cross sections for hard exclusive electroproduction of pi(+) mesons on a hydrogen target
Airapetian, A; Akopov, N; Akopov, Z; Aschenauer, EC; Augustyniak, W; Avetissian, A; et al.
PHYSICS LETTERS B
Volume: 659 Issue: 3 Pages: 486-492 (2008)

Evidence for a transverse single-spin asymmetry in leptoproduction of pi(+)pi(-) pairs
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 017 (2008)
Measurement of azimuthal asymmetries with respect to both beam charge and transverse target polarization in exclusive electroproduction of real photons
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
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Issue: 6 Article Number: 066 (2008)

Measurement of parton distributions of strange quarks in the nucleon from charged-kaon production in deep-inelastic scattering on the deuteron
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
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Volume: 666 Issue: 5 Pages: 446-450 (2008)

Disc DIRC endcap detector for PANDA@FAIR
Schonmeier, P; Branford, D; Duren, M; Ehrenfried, M; Eyrich, W; Fohl, K; Hoek, M; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, ELSEVIER SCIENCE BV

Radiation hardness study on fused silica
Hoek, M; Bennet, ED; Branford, D; Cowie, EN; Duren, M; Fohl, K; Glazier, D; et al.
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The barrel DIRC of the PANDA experiment
Schwarz, C; Bettoni, D; Branford, D; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
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The DIRC detectors of the (P)over-barANDA experiment at FAIR
Fohl, K; Bettoni, D; Branford, D; Britting, A; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
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Kania, R
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Er: Yb-doped oxyfluoride silicate glass waveguide laser fabricated using ultrafast laser inscription
Psaila, ND; Thomson, RR; Bookey, HT; Chiodo, N; Shen, S; Osellame, R; Cerullo, G; Jha, A; Kar, AK
IEEE PHOTONICS TECHNOLOGY LETTERS

Shaping ultrafast laser inscribed optical waveguides using a deformable mirror
Thomson, RR; Bockelt, AS; Ramsay, E; Beecher, S; Greenaway, AH; Kar, AK; Reid, DT
OPTICS EXPRESS

Ultrashort laser ablation of PMMA and intraocular lenses
Serafetinides, AA; Makropoulou, M; Fabrikesi, E; Spyratou, E; Bacharis, C; Thomson, RR; Kar, AK
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING

ZnSe Hybrid Microcavities Fabricated Using a MgS Release Layer: Strong & Weak Exciton-Photon Coupling
Curran, A; Barbour, RJ; Morrod, JK; Prior, KA; Kar, AK; Warburton, RJ
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

Probing the I-4(13/2) level lifetime of Er-ions embedded in ultrafast laser inscribed waveguides
Thomson, RR; Psaila, ND; Bookey, HT; Kar, AK; Chiodo, N; Osellame, R; Cerullo, G; Shen, S; Jha, A
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2838-2839 (2008)

Three-core tellurite fiber with multiple rare earth emission
Bookey, HT; Thomson, RP; Psaila, ND; Kar, AK; Lousteau, J; Jha, A; Gayraud, N; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 238-239 (2008)

Ultra Broadband Gain from a Bismuth-doped Glass Waveguide Fabricated Using Ultrafast Laser Inscription
Psaila, N; Thomson, RR; Bookey, HT; Kar, AK; Fujimoto, Y; Nakatsuka, M; Chiodo, N; et al.
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Pages: 2215-2216 (2008)
Ultrafast laser inscription of a three dimensional fan-out device for multicore fiber coupling applications
Thomson, RR; Bookey, HT; Psaila, ND; Fender, A; Campbell, S; Macpherson, WN; et al.
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Pages: 2812-2813 (2008)

Waveguide Fabrication and Supercontinuum Generation in an Ultrafast Laser Inscribed Chalcogenide Glass Waveguide
Psaila, ND; Thomson, RR; Bookey, HT; Kar, AK; Chiodo, N; Osellame, R; Cerullo, G; Shen, S; Jha, A
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 422-423 (2008)

Karahasanovic, U
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2 records

Genome-wide association scan identifies a colorectal cancer susceptibility locus on 11q23 and replicates risk loci at 8q24 and 18q21
Tenesa, A; Farrington, SM; Prendergast, JGD; Porteous, ME; Walker, M; Haq, N; et al.
NATURE GENETICS

Building Data Management Components for Business Applications
Thomson, C; Kavoussanakis, K; Trew, A
COLLABORATION AND THE KNOWLEDGE ECONOMY: ISSUES, APPLICATIONS, CASE STUDIES, Cunningham, P; Cunningham, M (Eds)
Kaziannis, S
Spyros Kaziannis
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2 records

Alignment of ethyl halide molecules (C2H5X, X= I, Br, Cl) induced by strong ps laser irradiation
Kaziannis, S; Kosmidis, C; Lyras, A
JOURNAL OF PHYSICAL CHEMISTRY A

Experimental studies of generation and propagation of high frequency acoustic waves in various solid materials using ultraviolet picosecond laser pulses
#VALUE!
'Proceedings of the Acoustics '08 Paris'
J. ACOUST. SOC. AM.

Keatings, SR
Stefanie Keatings
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3 records

Characterization of microscope objective lenses from 1,400 to 1,650 nm to evaluate performance for long-wavelength nonlinear microscopy applications
Keatings, SR; Zhang, W; McConnell, G
MICROSCOPY RESEARCH AND TECHNIQUE
Volume: 71 Issue: 7 Pages: 517-520 (2008)

Confocal laser scanning microscopy using a frequency doubled vertical external cavity surface emitting laser
Esposito, E; Keatings, S; Gardner, K; Harris, J; Riis, E; McConnell, G
REVIEW OF SCIENTIFIC INSTRUMENTS
Volume: 79 Issue: 8 Article Number: 083702 (2008)

Modeling the effect of reflection from metallic walls on spectroscopic measurements
Zastrow, KD; Keatings, SR; Marot, L; O'Mullane, MG; de Temmerman, G
REVIEW OF SCIENTIFIC INSTRUMENTS
Volume: 79 Issue: 10 Article Number: 10F527 (2008)

Keegan, L
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3 records
Hydrodynamic interactions in two dimensions
Di Leonardo, R; Keen, S; Ianni, F; Leach, J; Padgett, MJ; Ruocco, G
PHYSICAL REVIEW E
Volume: 78 Issue: 3 Article Number: 031406 (2008)

Independent polarisation control of multiple optical traps
Preece, D; Keen, S; Botvinick, E; Bowman, R; Padgett, M; Leach, J
OPTICS EXPRESS

Measuring the accuracy of particle position and force in optical tweezers using high-speed video microscopy
Gibson, GM; Leach, J; Keen, S; Wright, AJ; Padgett, MJ
OPTICS EXPRESS
Volume: 16 Issue: 19 Pages: 14561-14570 (2008)

Kelly, C
Chris Kelly
Research Student
The University of Edinburgh
2 records

The pion's electromagnetic form factor at small momentum transfer in full lattice QCD
Boyle, PA; Flynn, JM; Juttner, A; Kelly, C; de Lima, HP; Maynard, CM; Sachrajda, CT; Zanotti, JM
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 7 Article Number: 112 (2008)

Use of stochastic sources for the lattice determination of light quark physics
Boyle, PA; Kelly, C; Kenway, RD; Juttner, A
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 8 Article Number: 086 (2008)

Kelvin, L
Lee Kelvin
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Kemp, AJ
Alan Kemp
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University of Strathclyde in Glasgow
7 records

Thermal management in 2.3-mu m semiconductor disk lasers: A finite element analysis
Kemp, AJ; Hopkins, JM; Maclean, AJ; Schulz, N; Rattunde, M; Wagner, J; Burns, D
IEEE JOURNAL OF QUANTUM ELECTRONICS

Continuous tuning and efficient intracavity second-harmonic generation in a semiconductor disk laser with an intracavity diamond heatspreader
Maclean, AJ; Kemp, AJ; Calvez, S; Kim, JY; Kim, T; Dawson, MD; Burns, D
IEEE JOURNAL OF QUANTUM ELECTRONICS
Synthetic diamond for intracavity thermal management in compact solid-state lasers
Millar, P; Birch, RB; Kemp, AJ; Burns, D
IEEE JOURNAL OF QUANTUM ELECTRONICS

Array-Format Microchip Semiconductor Disk Lasers
Laurand, N; Lee, CL; Gu, E; Hastie, JE; Kemp, AJ; Calvez, S; Dawson, MD
IEEE JOURNAL OF QUANTUM ELECTRONICS

Comparison of thermal management techniques for semiconductor disk lasers - art. no. 687115
Giet, S; Kemp, AJ; Burns, D; Calvez, S; Dawson, MD; Suomalainen, S; Harkonen, A; et al.
'Solid State Lasers XVII: Technology and Devices, Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE), Clarkson, WA, Hodgson, NH, Shori, RK (Eds), SPIE-INT SOC OPTICAL ENGINEERING

Efficiency and Beam Quality Analysis of a Semiconductor Disk Laser
Roth, P; Maclean, AJ; Kemp, AJ; Calvez, S; Dawson, MD; Burns, D
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 1806-1807 (2008)

Power-Scaling of a 1060nm Semiconductor Disk Laser with a Diamond Heatspreader
Maclean, AJ; Kemp, AJ; Burns, D
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 2065-2066 (2008)

Kemp, J
Johnathan Kemp
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Update: Accurate determinations of alpha(s) from realistic lattice QCD
Davies, CTH; Hornbostel, K; Kendall, ID; Lepage, GP; McNeile, C; Shigemitsu, J; Trottier, H
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 114507 (2008)

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Physical results from 2+1 flavor domain wall QCD and SU(2) chiral perturbation theory
Allton, C; Antonio, DJ; Aoki, Y; Blum, T; Boyle, PA; Christ, NH; Clark, MA; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 114509 (2008)

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Localization and chiral symmetry in three flavor domain wall QCD
Antonio, DJ; Bowler, KC; Boyle, PA; Christ, NH; Clark, MA; Cohen, SD; Dawson, C; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 014509 (2008)

Neutral-kaon mixing from (2+1)-flavor domain-wall QCD
Antonio, DJ; Boyle, PA; Blum, T; Christ, NH; Cohen, SD; Dawson, C; Izubuchi, T; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 3 Article Number: 032001 (2008)

K\(\bar{L}3\) semileptonic form factor from (2+1)-flavor lattice QCD
Boyle, PA; Juttner, A; Kenway, RD; Sachrajda, CT; Sasaki, S; Soni, A; Tweedie, RJ; Zanotti, JM
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 14 Article Number: 141601 (2008)

Use of stochastic sources for the lattice determination of light quark physics
Boyle, PA; Kelly, C; Kenway, RD; Juttner, A
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 8 Article Number: 086 (2008)

Proton lifetime bounds from chirally symmetric lattice QCD
Aoki, Y; Boyle, P; Cooney, P; Del Debbio, L; Kenway, R; Maynard, CM; Soni, A; Tweedie, R
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 054505 (2008)

Physical results from 2+1 flavor domain wall QCD and SU(2) chiral perturbation theory
Allton, C; Antonio, DJ; Aoki, Y; Blum, T; Boyle, PA; Christ, NH; Clark, MA; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 114509 (2008)
Current Research
Simulation of lattice gauge theories using domain wall fermions in order to understand the physics of light hadrons; to determine phenomenologically important QCD matrix elements needed to search for, or to constrain, physics beyond the Standard Model; and to explore possible models of electroweak symmetry breaking.

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The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08003 (2008)

Integration of the ATLAS tag database with data management and analysis components
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Cross sections for hard exclusive electroproduction of pi(+) mesons on a hydrogen target
Airapetian, A; Akopov, N; Akopov, Z; Aschenauer, EC; Augustyniak, W; Avetissian, A; et al.
PHYSICS LETTERS B
Volume: 659 Issue: 3 Pages: 486-492 (2008)

Evidence for a transverse single-spin asymmetry in leptoproduction of pi(+)pi(-) pairs
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 017 (2008)

Measurement of azimuthal asymmetries with respect to both beam charge and transverse target polarization in exclusive electroproduction of real photons
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 066 (2008)

Measurement of parton distributions of strange quarks in the nucleon from charged-kaon production in deep-inelastic scattering on the deuteron
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
PHYSICS LETTERS B
Volume: 666 Issue: 5 Pages: 446-450 (2008)
Kerrane, E
Eoin Kerrane
Research Student
The University of Edinburgh
Zero records

Khan, Al
Amirul Khan
Academic
University of Glasgow
Zero records

Khatri, B
Bhavin Khatri
Researcher
The University of Edinburgh
1 record

*Internal friction of single polypeptide chains at high stretch*
Khatri, BS; Byrne, K; Kawakami, M; Brockwell, DJ; Smith, DA; Radford, SE; McLeish, TCB
FARADAY DISCUSSIONS

Kiessling, A
Alina Kiessling
Research Student
The University of Edinburgh
Zero records

Killow, CJ
Christian Killow
Researcher
University of Glasgow
1 record

*Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs*
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Current Research
I am involved in the Laser Interferometer Space Antenna (LISA) spaceborne gravitational wave detector and its precursor mission, the LISA Pathfinder. The current focus of my research is the construction of the LISA Pathfinder optical bench interferometer. This involves ultra-stable low frequency interferometry, precision metrology and space-flight worthy construction techniques of compact optical assemblies. I am also involved in interferometry demonstration experiments for LISA.

Kim, E
Grace Kim
Research Student
The University of Edinburgh
1 record
Arrest of fluid demixing by nanoparticles: A computer simulation study
Kim, E; Stratford, K; Adhikari, R; Cates, AE
LANGMUIR

Kim, YM
Young Min Kim
Research Student
The University of Edinburgh
2 records

The LHCb Detector at the LHC
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08005 (2008)

Contact process in disordered and periodic binary two-dimensional lattices
Fallert, SV; Kim, YM; Neugebauer, CJ; Taraskin, SN
PHYSICAL REVIEW E
Volume: 78 Issue: 4 Article Number: 041117 (2008)

Kirk, KJ
Katherine Kirk
Academic
University of the West of Scotland
2 records

Instrumentation of a rolling bearing with a thin film piezo coating for oil film measurement
Dwyer-Joyce, RS; Drinkwater, BW; Zhang, J; Elgoyhen, J; Kirk, KJ
PROCEEDINGS OF THE ASME/STLE INTERNATIONAL JOINT TRIBOLOGY CONFERENCE, PTS A AND B

Ultrasmart: Developments in ultrasonic flaw detection and monitoring for high temperature plant applications.
Atkinson, I; Gregory, C; Kelly, SP; Kirk, KJ
PROCEEDINGS OF THE ASME PRESSURE VESSELS AND PIPING CONFERENCE 2007, VOL 9, Jaske, CE, Jaske, CE (Eds)
Pages: 573-585 (2008)

Kirton, F
Fiona Kirton
Research Student
University of Glasgow
Zero records

Kitchen, R
Robert Kitchen
Research Student
The University of Edinburgh
Zero records
**Kleinschmidt, T**  
Tobias Kleinschmidt  
Researcher  
The University of Edinburgh  
Zero records

**Koenig, F**  
Frieder Koenig  
Academic  
University of St Andrews  
3 records

*Fiber-optical analog of the event horizon*  
Philbin, TG; Kuklewicz, C; Robertson, S; Hill, S; Konig, F; Leonhardt, U  
SCIENCE  

*Fiber-optical analogue of the event horizon*  
Konig, F; Philbin, TG; Kuklewicz, CE; Robertson, S; Hill, S; Leonhardt, U  
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9  

*Frequency shifts at the fiber-optical event horizon*  
Kuklewicz, CE; Philbin, TG; Robertson, S; Hill, S; Koenig, F; Leonhardt, U  
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9  

**Kong, X**  
Xian Kong  
Researcher  
University of Glasgow  
2 records

*Magnetization processes in single-layer and laminated CoFe films patterned into multiscale elements with write-head-like geometries*  
Kong, X; McVitie, S; Chapman, JN; Weaver, JMR; O'Donnell, DO; Johnston, AB  
JOURNAL OF APPLIED PHYSICS  
Volume: 104 Issue: 1 Article Number: 013925 (2008)

*Very high resolution etching of magnetic nanostructures in organic gases*  
Kong, X; Krasa, D; Zhou, HP;Williams, W; McVitie, S; Weaver, JMR; Wilkinson, CDW  
MICROELECTRONIC ENGINEERING  
Volume: 85 Issue: 5-6 Pages: 988-991 (2008)

**Konoplev, IV**  
Ivan Konoplev  
Researcher  
University of Strathclyde in Glasgow  
4 records
Free-electron maser based on a cavity with two- and one-dimensional distributed feedback
Konoplev, IV; Cross, AW; MacInnes, P; He, W; Phelps, ADR; Whyte, CG; Ronald, K; Robertson, CW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 21 Article Number: 211501 (2008)

Wave propagation and tunneling through periodic structures
Konoplev, IV; MacInnes, P; Cross, AW; Phelps, ADR; Fisher, L; Ronald, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 23 Article Number: 231110 (2008)

Helically corrugated waveguides for compression of microwave pulses
McStravick, M; Samsonov, SV; Cross, AW; Denisov, GG; He, W; MacInnes, P; Phelps, ADR; et al.
'Proceedings of the 33rd International Conference on Infrared, Millimeter and Terahertz Waves', SEP
15-19, 2008, Pasadena, CA
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHertz WAVES, VOLS 1 AND 2
Pages: 181-182 (2008)

High Power Masers based on 2D periodic structures: from the GHz to THz frequency range
Fisher, L; MacInnes, P; Konoplev, IV; Cross, AW; He, W; Ronald, K; Phelps, ADR; et al.
'Proceedings of the 33rd International Conference on Infrared, Millimeter and Terahertz Waves', SEP
15-19, 2008, Pasadena, CA
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHertz WAVES, VOLS 1 AND 2
Pages: 418-419 (2008)

Kontar, E
Eduard Kontar
Academic
University of Glasgow
4 records

The way forward for coronal heating
De Moortel, I; Browning, PK; Bradshaw, SJ; Pinter, B; Kontar, EP
ASTRONOMY & GEOPHYSICS
Volume: 49 Issue: 3 Pages: 21-26 (2008)

Chromospheric magnetic field and density structure measurements using hard X-rays in a flaring coronal loop
Kontar, EP; Hannah, IG; MacKinnon, AL
ASTRONOMY & ASTROPHYSICS
Volume: 489 Issue: 3 Pages: L57-L60 (2008)

Low-energy cutoffs in electron spectra of solar flares: Statistical survey
Kontar, EP; Dickson, E; Kasparova, J
SOLAR PHYSICS
Volume: 252 Issue: 1 Pages: 139-147 (2008)

An optical study of multiple NEIAL events driven by low energy electron precipitation
Sullivan, JM; Lockwood, M; Lanchester, BS; Kontar, EP; Ivchenko, N; Dahlgren, H; Whiter, DK
ANNALES GEOPHYSICAES
Volume: 26 Issue: 8 Pages: 2435-2447 (2008)

Kornaszewski, LW
Lukasz Kornaszewski
Research Student
Heriot-Watt University
3 records
Designer femtosecond pulse shaping using grating-engineered quasi-phase-matching in lithium niobate
Kornaszewski, L; Kohler, M; Sapaev, UK; Reid, DT
OPTICS LETTERS

Mid-infrared gas sensing using a photonic bandgap fiber
Gayraud, N; Kornaszewski, LW; Stone, JM; Knight, JC; Reid, DT; Hand, DP; MacPherson, WN
APPLIED OPTICS

Designer Femtosecond Pulse Shaping Using Grating-Engineered Quasi-Phase-matching in Lithium Niobate
Kornaszewski, L; Kohler, M; Reid, DT; Sapaev, UK
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 1877-1878 (2008)

Korolkova, N
Natalia Korolkova
Academic
University of St Andrews
4 records

Highly non-Gaussian states created via cross-Kerr nonlinearity
Tyc, T; Korolkova, N
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 023041 (2008)

Effective cross-Kerr Hamiltonian for a nonresonant four-level atom
Sinclair, GF; Korolkova, N
PHYSICAL REVIEW A
Volume: 77 Issue: 3 Article Number: 033843 (2008)

Distribution of continuous-variable entanglement by separable Gaussian states
Mista, L; Korolkova, N
PHYSICAL REVIEW A
Volume: 77 Issue: 5 Article Number: 050302 (2008)

Weak measurements with entangled probes
Menzies, D; Korolkova, N
PHYSICAL REVIEW A
Volume: 77 Issue: 6 Article Number: 062105 (2008)

Kotlyar, M
Maria Kotlyar
Researcher
University of St Andrews
2 records

Phase-sensitive Fourier space imaging of optical Bloch modes
Le Thomas, N; Houdre, R; Kotlyar, MV; Krauss, TF
PHYSICAL REVIEW B
Volume: 77 Issue: 24 Article Number: 245323 (2008)
Influence of residual disorder on the anticrossing of Bloch modes probed in k space
Le Thomas, N; Zabelin, V; Houdre, R; Kotlyar, MV; Krauss, TF
PHYSICAL REVIEW B
Volume: 78 Issue: 12 Article Number: 125301 (2008)

Kotova, N
Nadezhda Kotova
Research Student
Heriot-Watt University
3 records

Trends in stimulated Brillouin scattering and optical phase conjugation
Ostermeyer, M; Kong, HJ; Kovalev, VI; Harrison, RG; Fotiadi, AA; Megret, P; et al.
LASER AND PARTICLE BEAMS

Slow light in optical fiber using stimulated Brillouin scattering - art. no. 702415
Kovalev, VF; Harrison, RG; Knight, JC; Kotova, NE
INTERNATIONAL WORKSHOP ON QUANTUM OPTICS 2007, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Samartsev, VV (Eds)

Waveguide Induced Spectral Bandwidth Enhancement of Slow Light Group Index Caused by Stimulated Brillouin Scattering in Optical Fiber
Kovalev, VI; Harrison, RG; Knight, JC; Kotova, NE
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2569-2570 (2008)

Kovalev, VI
Valeri Kovalev
Researcher
Heriot-Watt University
6 records

Abnormally low threshold gain of stimulated Brillouin scattering in long optical fiber with feedback
Kovalev, VI; Harrison, RG
OPTICS EXPRESS

Trends in stimulated Brillouin scattering and optical phase conjugation
Ostermeyer, M; Kong, HJ; Kovalev, VI; Harrison, RG; Fotiadi, AA; Megret, P; et al.
LASER AND PARTICLE BEAMS

Emergence and collapse of coherent periodic emission in stochastic stimulated Brillouin scattering in an optical fiber
Kovalev, VI; Harrison, RG; Simonotto, JD
PHYSICAL REVIEW A
Volume: 78 Issue: 4 Article Number: 043820 (2008)
Means for easy and accurate measurement of the stimulated Brillouin scattering gain coefficient in optical fiber
Kovalev, VI; Harrison, RG
OPTICS LETTERS

Slow light in optical fiber using stimulated Brillouin scattering - art. no. 702415
Kovalev, VF; Harrison, RG; Knight, JC; Kotova, NE
INTERNATIONAL WORKSHOP ON QUANTUM OPTICS 2007, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Samartsev, VV (Eds)

Waveguide Induced Spectral Bandwidth Enhancement of Slow Light Group Index Caused by Stimulated Brillouin Scattering in Optical Fiber
Kovalev, VI; Harrison, RG; Knight, JC; Kotova, NE
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2569-2570 (2008)

Kraeusel, S
Simon Kraeusel
Research Student
University of Strathclyde in Glasgow
Zero records

Krause, A
Amy Krause
Researcher
The University of Edinburgh
Zero records

Krauss, TF
Thomas Krauss
Academic
University of St Andrews
22 records

Efficient polarization diversity grating couplers in bonded InP-membrane
Van Laere, F; Stomeo, T; Taillaert, D; Roelkens, G; Van Thourhout, D; Krauss, TF; Baets, R
IEEE PHOTONICS TECHNOLOGY LETTERS

Photonic crystal laser with mode selective mirrors
Moore, SA; O'Faolain, L; White, TP; Krauss, TF
OPTICS EXPRESS
Volume: 16 Issue: 2 Pages: 1365-1370 (2008)

Ultracompact and low-power optical switch based on silicon photonic crystals
Beggs, DM; White, TP; O'Faolain, L; Krauss, TF
OPTICS LETTERS
Volume: 33 Issue: 2 Pages: 147-149 (2008)
Dispersion control and slow light in slotted photonic crystal waveguides
Gupta, D; Bag, M; Narayan, KS
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 8 (2008)

Optical deflection and sorting of microparticles in a near-field optical geometry
Marchington, RF; Mazilu, M; Kuriakose, S; Garces-Chavez, V; Reece, PJ; Krauss, TF; Gu, M; Dholakia, K
OPTICS EXPRESS

Optical vortex trap for resonant confinement of metal nanoparticles
Dienerowitz, M; Mazilu, M; Reece, PJ; Krauss, TF; Dholakia, K
OPTICS EXPRESS

Coupling length of silicon-on-insulator directional couplers probed by Fourier-space imaging
Jagerska, J; Le Thomas, N; Houdre, R; Beggs, DM; O'Brien, D; Krauss, TF
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 15 Article Number: 151106 (2008)

Integration of grating couplers with a compact photonic crystal demultiplexer on an InP membrane
Stomeo, T; Van Laere, F; Ayre, M; Cambournac, C; Benisty, H; Van Thourhout, D; Baets, R; Krauss, TF
OPTICS LETTERS
Volume: 33 Issue: 8 Pages: 884-886 (2008)

Systematic design of flat band slow light in photonic crystal waveguides
Li, J; White, TP; O'Faolain, L; Gomez-Iglesias, A; Krauss, TF
OPTICS EXPRESS
Volume: 16 Issue: 9 Pages: 6227-6232 (2008)

Phase-sensitive Fourier space imaging of optical Bloch modes
Le Thomas, N; Houdre, R; Kotlyar, MV; Krauss, TF
PHYSICAL REVIEW B
Volume: 77 Issue: 24 Article Number: 245323 (2008)

Enhanced light extraction efficiency from AlGaInP thin-film light-emitting diodes with photonic crystals
Bergenek, K; Wiesmann, C; Wirth, R; O'Faolain, L; Linder, N; Streubel, K; Krauss, TF
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 4 Article Number: 041105 (2008)

Why do we need slow light?
Krauss, TF
NATURE PHOTONICS
Volume: 2 Issue: 8 Pages: 448-450 (2008)

Influence of residual disorder on the anticrossing of Bloch modes probed in k space
Le Thomas, N; Zabelin, V; Houdre, R; Kotlyar, MV; Krauss, TF
PHYSICAL REVIEW B
Volume: 78 Issue: 12 Article Number: 125301 (2008)
Reconfigurable microfluidic photonic crystal slab cavities
Smith, CLC; Bog, U; Tomljenovic-Hanic, S; Lee, MW; Wu, DKC; O'Faolain, L; Monat, C; et al.
OPTICS EXPRESS

High-Q microfluidic cavities in silicon-based two-dimensional photonic crystal structures
Bog, U; Smith, CLC; Lee, MW; Tomljenovic-Hanic, S; Grillot, C; Monat, C; O'Faolain, L; et al.
OPTICS LETTERS

Silica-embedded silicon photonic crystal waveguides
White, TP; O'Faolain, L; Li, JT; Andreani, LC; Krauss, TF
OPTICS EXPRESS

Accurate determination of the functional hole size in photonic crystal slabs using optical methods
Beggs, DM; O'Faolain, L; Krauss, TF
PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS

Directional light extraction from thin-film resonant cavity light-emitting diodes with a photonic crystal
Bergenek, K; Wiesmann, C; Zull, H; Wirth, R; Sundgren, P; Linder, N; Streubel, K; Krauss, TF
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 23 Article Number: 231109 (2008)

Photonic crystal slotted slab waveguides
Di Falco, A; O'Faolain, L; Krauss, TF
'Proceedings of the 7th International Symposium on Photonic and Electromagnetic Crystal Structures (PECS-VII)', APR 08-11, 2007, Monterey, CA
PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS

Photonic crystal waveguides for coarse-selectivity devices
Ayre, M; Cambournac, C; Khayam, O; Benisty, H; Stomeo, T; Krauss, TF
'Proceedings of the 7th International Symposium on Photonic and Electromagnetic Crystal Structures (PECS-VII)', APR 08-11, 2007, Monterey, CA
PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS

An organic semiconductor laser on silicon - art. no. 699606
Vasdekis, AE; Moore, SA; Ruseckas, A; Krauss, TF; Samuel, IDW; Turnbull, GA
SILICON PHOTONICS AND PHOTONIC INTEGRATED CIRCUITS, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Righini, GC, Honkanen, SK, Pavesi, L, Vivien, L (Eds)

Photonic crystal slow light devices in silicon - art. no. 689802
Krauss, TF
'Proceedings of the Conference on Silicon Photonics III', JAN 21-24, 2008, San Jose, CA
SILICON PHOTONICS III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Kubby, JA, Reed, GT (Eds)
Current Research

Photonic crystals are my dominant research theme, with a focus on the functionality they afford; examples include enhanced light-matter interaction in photonic crystal cavities, slow light in photonic crystal waveguides for low power optical switches and nonlinear effects, control of polarisation in polarisation diversity circuits and light extraction for LEDs. The work is highly collaborative and engages with several EU projects, one of which ("SPLASH") we lead. The material platform is increasingly silicon, as well as III-V semiconductors and, more recently, highly nonlinear chalcogenide glasses, all of which are processed to high precision in our in-house nanofabrication facility. A second major strand is research into Lab-on-a-chip devices for biomedical sensing; especially involving on-chip integrated optical trapping.

Krichel, N

Nils Krichel
Research Student
Heriot-Watt University
Zero records

Kuklewicz, C

Chris Kuklewicz
Researcher
University of St Andrews
4 records

Fiber-optical analog of the event horizon
Philbin, TG; Kuklewicz, C; Robertson, S; Hill, S; Konig, F; Leonhardt, U
SCIENCE

Fiber-optical analogue of the event horizon
Konig, F; Philbin, TG; Kuklewicz, CE; Robertson, S; Hill, S; Leonhardt, U
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9

Frequency shifts at the fiber-optical event horizon
Kuklewicz, CE; Philbin, TG; Robertson, S; Hill, S; Koenig, F; Leonhardt, U
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9

Optical analogue of the event horizon demonstrated with microstructured fibers - art. no. 69871C
Philbin, TG; Kuklewicz, C; Robertson, S; Hill, S; Konig, F; Leonhardt, U
METAMATERIALS III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Johnson, NP, Ozbay, E, Zheludev, NI, Ziolkowski, RW (Eds)
Volume: 6987 Pages: C9871-C9871 (2008)
Kumar, R
Rahul Kumar
Researcher
University of Glasgow
Zero records

Current Research
My research is based on the development of gravitational wave detectors. I am looking into the finite element analysis of suspension elements for these ground-based detectors. My thesis has been published at Glasgow University in 2008 and the title is "Finite element analysis of suspension elements for gravitational wave detectors".

Kumar, S
Shailesh Kumar
Research Student
Heriot-Watt University
Zero records

Kumar, V
Vinod Kumar
Researcher
University of the West of Scotland
Zero records

Labrosse N
Nicolas Labrosse
Academic
University of Glasgow
2 records

HINODE, TRACE, SOHO, AND GROUND-BASED OBSERVATIONS OF A QUIESCENT PROMINENCE
Heinzel, P; Schmieder, B; Farnik, F; Schwartz, P; Labrosse, N; Kotrc, P; Anzer, U; et al.
ASTROPHYSICAL JOURNAL

Diagnostics of active and eruptive prominences through hydrogen and helium lines modelling
Labrosse, N; Vial, C; Gouttebroze, P
ANNALES GEOPHYSICAE, COPERNICUS PUBLICATIONS
Volume: 26 Issue: 10 Pages: 2961-2965 (2008)

Current Research
My research interests are in radiative transfer modelling and spectroscopy of the solar atmosphere. I am especially interested in prominences and solar flares. I am also developing new solar image processing techniques.

Lagatsky, AA
Alexander Lagatsky
Researcher
University of St Andrews
6 records
Diode-pumped passively mode-locked Er, Yb : YAl3(BO3)(4) laser at 1.5-1.6 μm
Lagatsky, AA; Kisiel, VE; Troshin, AE; Tolstik, NA; Kuleshov, NV; Leonyuk, NI; et al.
OPTICS LETTERS

Enhanced operation of femtosecond lasers and applications in cell transfection
Brown, CTA; Stevenson, DJ; Tsampoula, X; McDougall, C; Lagatsky, AA; Sibbett, W; et al.
JOURNAL OF BIOPHOTONICS
Volume: 1 Issue: 3 Pages: 183-199 (2008)

Femtosecond pulse generation around 1500nm using a GaInNAsSb SESAM
Metzger, NK; Leburn, CG; Lagatsky, AA; Brown, CTA; Calvez, S; Burns, D; Sun, HD; et al.
OPTICS EXPRESS

Spectroscopic and lasing performance of Tm3+-doped bulk TZN and TZNG tellurite glasses operating around 1.9 μm
Fusari, F; Lagatsky, AA; Richards, B; Jha, A; Sibbett, W; Brown, CTA
OPTICS EXPRESS

Compact and efficient mode-locked lasers based on QD-SESAMs - art. no. 69980B
Rafailov, EU; Lagatsky, AA; Zolotovskaya, SA; Sibbett, W
'Solid State Lasers and Amplifiers III', APR 07-10, 2008, Strasbourg, FRANCE
SOLID STATE LASERS AND AMPLIFIERS III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Terry, JA, Graf, T, Jelinkova, H (Eds)
Volume: 6998 Pages: B9980-B9980 (2008)

High-power Kerr-lens mode-locked ytterbium lasers - art. no. 68712L
Bain, FM; Lagatsky, AA; Brown, CTA; Sibbett, W
'Solid State Lasers XVII', JAN 20-24, 2008, San Jose, CA
SOLID STATE LASERS XVII: TECHNOLOGY AND DEVICES, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkson, WA, Hodgson, NH, Shori, RK (Eds)

Laing, A
Andrew Laing
Research Student
University of Glasgow
2 records

Spectral characterisation and noise performance of Vanilla - an active pixel sensor
Blue, A; Bates, R; Bonhiek, SE; Clark, A; Costas, A; Greenshaw, T; Laing, A; et al.
'Proceedings of the 9th International Workshop on Radiation Imaging Detectors', JUL 22-26, 2007, Nuremberg, GERMANY
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Flux measurement at a Neutrino Factory Near Detector for neutrino oscillations
Laing, A; Soler, FJP
'Proceedings of the 9th International Workshop on Neutrino Factories, Superbeams and Betabeams', AUG 06-11, 2007, Okayama, JAPAN
NEUTRINO FACTORIES, SUPERBEAMS AND BETABEAMS, AIP CONFERENCE PROCEEDINGS, Yasuda, O, Ohmori, C, Mondal, N (Eds)
Lambert, RW
Rob Lambert
Research Student
The University of Edinburgh
3 records

_The LHCb Detector at the LHC_
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; _et al._
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08005 (2008)

_The LHCb pixel hybrid photon detectors_
Lambert, RW
'Proceedings of the 1st International Workshop on new Photon-Detectors ', JUN 27-29, 2007, Kobe, JAPAN
J. PHYS.: CONF. SER.
(2008)

_Quantum Efficiency of Hybrid Photon Detectors of the LHCb RICH_
Lambert, RW
'Proceedings of the 10th ICATPP Conference on Astroparticle, Particle, Space Physics, Detectors, and Medical Physics Applications', OCT 08-12, 2007, Como, ITALY
WORLD SCIENTIFIC, M.Barone _et al._ (Eds)

Lamour (ne Muller), T
Tobias Lamour (ne Muller)
Research Student
Heriot-Watt University
Zero records

Lan, Z
Zhihao Lan
Research Student
Heriot-Watt University
Zero records

Langford, N
Nigel Langford
Researcher
University of Strathclyde in Glasgow
2 records

_In-flight measurements of ambient methane, nitrous oxide and water using a quantum cascade laser based spectrometer_
Hay, KG; Wright, S; Duxbury, G; Langford, N
'Proceedings of the 6th International Conference on Tunable Diode Laser Spectroscopy', JUN 09-13, 2007, Reims, FRANCE
APPLIED PHYSICS B-LASERS AND OPTICS
Delayed rapid passage and transient gain signals generated using a chirped 8 mu m quantum cascade laser
Duxbury, G; Langford, N; Hay, K
'Proceedings of the 38th Winter Colloquium on the Physics of Quantum Electronics', JAN 06-FEB 10, 2008, Snowbird, UT
JOURNAL OF MODERN OPTICS

Laurand, N
Nicolas Laurand
Researcher
University of Strathclyde in Glasgow
4 records

Array-Format Microchip Semiconductor Disk Lasers
Laurand, N; Lee, CL; Gu, E; Hastie, JE; Kemp, AJ; Calvez, S; Dawson, MD
IEEE JOURNAL OF QUANTUM ELECTRONICS

GaInNAs(Sb) surface normal devices
Calvez, S; Laurand, N; Sun, HD; Weda, J; Burns, D; Dawson, MD; Harkonen, A; et al.
'Proceedings of the 2nd Workshop on Impurity Based Electroluminescent Devices and Materials (IBEDM 2006)', OCT 17-20, 2006, Nanki Shirahama, JAPAN
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, WILEY-V C H VERLAG GMBH

Characteristics of GaInNAsSb/GaAs VCSELs operating near 1.55um - art. no. 69080E
Gupta, JA; Calvez, S; Laurand, N; Weda, J; Burns, D; Poitra, D; Aers, GC; Dawson, MD
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Longitudinal Mode Selection in a Fiber-Coupled Microlensed Microchip VECSEL
Laurand, N; Lee, CL; Gu, E; Calvez, S; Dawson, MD
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 2243-2244 (2008)

Lawrence, A
Andy Lawrence
Academic
The University of Edinburgh
3 records

The WFCAM science archive
Hambly, NC; Collins, RS; Cross, NJG; Mann, RG; Read, MA; Sutorius, ETW; Bond, I; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The characteristic blue spectra of accretion disks in quasars as uncovered in the infrared
Kishimoto, M; Antonucci, R; Blaes, O; Lawrence, A; Boisson, C; Albrecht, M; Leipski, C
NATURE
Leach, J
Jonathan Leach
Researcher
University of Glasgow
11 records

Aether drag and moving images
Leach, J; Wright, AJ; Gotte, JB; Girkin, JM; Allen, L; Franke-Arnold, S; Barnett, SM; Padgett, MJ
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 15 Article Number: 153902 (2008)

3D mapping of microfluidic flow in laboratory-on-a-chip structures using optical tweezers
Mushfique, H; Leach, J; Yin, HB; Di Leonardo, R; Padgett, MJ; Cooper, JM
ANALYTICAL CHEMISTRY

Transfer of orbital angular momentum from a super-continuum, white-light beam
Wright, AJ; Girkin, JM; Gibson, GM; Leach, J; Padgett, MJ
OPTICS EXPRESS
Volume: 16 Issue: 13 Pages: 9495-9500 (2008)

Hydrodynamic interactions in two dimensions
Di Leonardo, R; Keen, S; Ianni, F; Leach, J; Padgett, MJ; Ruocco, G
PHYSICAL REVIEW E
Volume: 78 Issue: 3 Article Number: 031406 (2008)

Independent polarisation control of multiple optical traps
Preece, D; Keen, S; Botvinick, E; Bowman, R; Padgett, M; Leach, J
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Measuring the accuracy of particle position and force in optical tweezers using high-speed video microscopy
Gibson, GM; Leach, J; Keen, S; Wright, AJ; Padgett, MJ
OPTICS EXPRESS
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Fourier relationship between the angle and angular momentum of entangled photons
Jha, AK; Jack, B; Yao, E; Leach, J; Boyd, RW; Buller, GS; Barnett, SM; Franke-Arnold, S; Padgett, MJ
PHYSICAL REVIEW A
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A spatial light phase modulator with an effective resolution of 4 mega-pixels
Preece, D; Yao, E; Gibson, G; Bowman, R; Leach, J; Padgett, M
JOURNAL OF MODERN OPTICS
High throughput diffractive multi-beam femtosecond laser processing using a spatial light modulator
Kuang, Z; Perrie, W; Leach, J; Sharp, M; Edwardson, SP; Padgett, M; Dearden, G; Watkins, KG
APPLIED SURFACE SCIENCE

Holographic assembly workstation for optical manipulation
Gibson, G; Carberry, DM; Whyte, G; Leach, J; Courtial, J; Jackson, JC; Robert, D; Miles, M; Padgett, M
'Proceedings of the IEEE/LEOS International Conference on Optical MEMS and Nanophotonics', AUG 12-16, 2007, Hualien, TAIWAN
JOURNAL OF OPTICS A-PURE AND APPLIED OPTICS
Volume: 10 Issue: 4 Article Number: 044009 (2008)

Optically driven pumps and flow sensors for microfluidic systems
Mushfique, H; Leach, J; Di Leonardo, R; Padgett, MJ; Cooper, JM
'Proceedings of the Colloquium on Micro- and Nano-Scale Flows - Advancing the Engineering Science and Design', DEC 07-08, 2006, Glasgow, SCOTLAND
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE
Volume: 222 Issue: 5 Pages: 829-837 (2008)

Leburn, CG
Christopher Leburn
Researcher
University of St Andrews
4 records

Femtosecond pulse generation around 1500nm using a GaInNAsSb SESAM
Metzger, NK; Leburn, CG; Lagatsky, AA; Brown, CTA; Calvez, S; Burns, D; Sun, HD; et al.
OPTICS EXPRESS

GaInNAs(Sb) surface normal devices
Calvez, S; Laurand, N; Sun, HD; Weda, J; Burns, D; Dawson, MD; Harkonen, A; et al.
'Proceedings of the 4th Workshop on Impurity Based Electroluminescent Devices and Materials (IBEDM 2006)', OCT 17-20, 2006, Nanki Shirahama, JAPAN
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, WILEY-V C H VERLAG GMBH

Propagation and diffraction of optical vortices
Fischer, P; Skelton, SE; Leburn, CG; Streuber, CT; Wright, EM; Dholakia, K
'Proceedings of the Vortex V Conference on Nanoscience and Engineering in Superconductivity', SEP 08-14, 2007, Rhodes, GREECE
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS

Femtosecond pulse generation at 1530nm using a GaInNAsSb SESAM
Leburn, CG; Metzger, NK; Brown, CT; Sibbett, W; Calvez, S; Burns, D; Sun, HD; et al.
'Proceedings of the Conference on Lasers and Electro-Optics (CLEO)', May 4, 2008, San Jose, California, USA
LASERS AND ELECTRO-OPTICS CONFERENCE 2008
Volume: 1-10 (2008)
Christopher's research involves designing and implementing a range of different ultrashort-pulse laser sources in the near infra-red for a wide range of applications. The scope of his current project is also allowing him to investigate the possibilities of expanding the controllability and capability of various laser systems to provide performance levels that go above and beyond current commercial solid-state laser systems.

**Ledingham, KWD**

Ken Ledingham
Academic
University of Strathclyde in Glasgow
4 records

*Spectral shaping of laser generated proton beams*
Pfotenhauer, SM; Jackel, O; Sachtleben, A; Polz, J; Ziegler, W; Schlenvoigt, HP; *et al.*
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 033034 (2008)

*Study of photo-proton reactions driven by bremsstrahlung radiation of high-intensity laser generated electrons*
Spohr, KM; Shaw, M; Galster, W; Ledingham, KWD; Robson, L; Yang, JM; McKenna, P; *et al.*
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 043037 (2008)

*Scalings for Narrow-Band MeV Proton Beams from Laser Plasmas*
Pfotenhauer, SM; Jackel, O; Polz, J; Schlenvoigt, HP; Kaluza, MC; Schwoerer, H; *et al.*
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9

*Laser-driven nuclear physics*
McKenna, P; Ledingham, KWD; Jaly, G
KARLSRUHER NUKLIDKARTE, Pfennig, G; Normand, C; Magill, J; Fanghanel, Th (Eds)
Pages: 78-86 (2008)

**Lee, CL**
Chee Lee
Research Student
University of Strathclyde in Glasgow
4 records

*Novel polymer systems for deep UV microlens arrays*
Mackintosh, AR; Kuehne, AJC; Pethrick, RA; Guilhabert, B; Gu, E; Lee, CL; Dawson, MD; *et al.*
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094007 (2008)

*Array-Format Microchip Semiconductor Disk Lasers*
Laurand, N; Lee, CL; Gu, E; Hastie, JE; Kemp, AJ; Calvez, S; Dawson, MD
IEEE JOURNAL OF QUANTUM ELECTRONICS
Etching and micro-optics fabrication in diamond using chlorine-based inductively-coupled plasma
Lee, CL; Gu, E; Dawson, MD; Friel, I; Scarsbrook, GA
DIAMOND AND RELATED MATERIALS, ELSEVIER SCIENCE SA

Longitudinal Mode Selection in a Fiber-Coupled Microlensed Microchip VECSEL
Laurand, N; Lee, CL; Gu, E; Calvez, S; Dawson, MD
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 2243-2244 (2008)

Lee, SL
Steve Lee
Academic
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1 record

Evidence for a Competition between the Superconducting State and the Pseudogap State of (BiPb)(2)(SrLa)(2)CuO6+delta from Muon Spin Rotation Experiments
Khasanov, R; Kondo, T; Strassle, S; Heron, DOG; Kaminski, A; Keller, H; Lee, SL; Takeuchi, T
PHYSICAL REVIEW LETTERS

Lee, WM
Woe Ming Lee
Researcher
University of St Andrews
2 records

Optical Trapping Takes Shape: The Use of Structured Light Fields
Dholakia, K; Lee, WM
ADVANCES IN ATOMIC, MOLECULAR, AND OPTICAL PHYSICS, VOL 57, ADVANCES IN ATOMIC MOLECULAR AND OPTICAL PHYSICS

Controlled three-dimensional manipulation of vanadium oxide nanotubes with optical tweezers
Hernandez-Pozos, JL; Lee, WM; Vera-Robles, LI; Campero, A; Dholakia, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 24 Article Number: 243107 (2008)

Lehmann, I
Inti Lehmann
Researcher
University of Glasgow
4 records

Cross sections for hard exclusive electroproduction of pi(+) mesons on a hydrogen target
Airapetian, A; Akopov, N; Akopov, Z; Aschenauer, EC; Augustyniak, W; Avetissian, A; et al.
PHYSICS LETTERS B
Volume: 659 Issue: 3 Pages: 486-492 (2008)
Vacuum predictions and measurements for an internal Pellet Target at a storage ring
Lehmann, I; Nordhage, O; Friden, CJ; Norman, G; Ekstrom, C; Johansson, T; Wiedner, U
VACUUM

Measurement of azimuthal asymmetries with respect to both beam charge and transverse
target polarization in exclusive electroproduction of real photons
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 066 (2008)

Measurement of parton distributions of strange quarks in the nucleon from charged-kaon
production in deep-inelastic scattering on the deuteron
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
PHYSICS LETTERS B
Volume: 666 Issue: 5 Pages: 446-450 (2008)

Leonhardt, U
Ulf Leonhardt
Academic
University of St Andrews
10 records

A novel design of dielectric perfect invisibility devices
Ochiai, T; Leonhardt, U; Nacher, JC
JOURNAL OF MATHEMATICAL PHYSICS
Volume: 49 Issue: 3 Article Number: 032903 (2008)

Fiber-optical analog of the event horizon
Philbin, TG; Kuklewicz, C; Robertson, S; Hill, S; Konig, F; Leonhardt, U
SCIENCE

Observation of negative-frequency waves in a water tank: a classical analogue to the
Hawking effect?
Rousseaux, G; Mathis, C; Maissa, P; Philbin, TG; Leonhardt, U
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 053015 (2008)

The case for artificial black holes
Leonhardt, U; Philbin, TG
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL
PHYSICAL AND ENGINEERING SCIENCES

Alternative calculation of the Casimir forces between birefringent plates
Philbin, TG; Leonhardt, U
PHYSICAL REVIEW A
Volume: 78 Issue: 4 Article Number: 042107 (2008)

Superantenna made of transformation media
Leonhardt, U; Tyc, T
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 115026 (2008)
Transmutation of singularities in optical instruments
Tyc, T; Leonhardt, U
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 115038 (2008)

Fiber-optical analogue of the event horizon
Konig, F; Philbin, TG; Kuklewicz, CE; Robertson, S; Hill, S; Leonhardt, U
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9

Frequency shifts at the fiber-optical event horizon
Kuklewicz, CE; Philbin, TG; Robertson, S; Hill, S; Konig, F; Leonhardt, U
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9

Optical analogue of the event horizon demonstrated with microstructured fibers - art. no. 69871C
Philbin, TG; Kuklewicz, C; Robertson, S; Hill, S; Konig, F; Leonhardt, U
METAMATERIALS III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Johnson, NP, Ozbay, E, Zheludev, NI, Ziolkowski, RW (Eds)
Volume: 6987 Pages: C9871-C9871 (2008)

Current Research
Ulf Leonhardt is the Chair in Theoretical Physics at the University of St Andrews and a Royal Society-Wolfson Research Merit Award Holder. His research background is in quantum optics. In particular, he is interested in connections between quantum optics and general relativity, in artificial black holes, quantum forces and invisibility. Ulf Leonhardt enjoys imaginative research that connects the practical aspects of physics with abstract ideas, thoughts and stories. He loves to find and use unusual and often unused connections across several areas of physics. For his work on invisibility devices, Scientific American listed him among the top 50 policy business and research leaders of the world in 2006. In 2008 he received a Royal Society Wolfson Research Merit Award and he was recognized as Outstanding Referee for the journals of the American Physical Society.

Lethy, KJ
Lethy Jagadamma
Research Student
University of Strathclyde in Glasgow
3 records

Structural, optical and morphological studies on laser ablated nanostructured WO3 thin films
Lethy, KJ; Beena, D; Kumar, RV; Pillai, VPM; Ganesan, V; Sathe, V
APPLIED SURFACE SCIENCE

Nanostructured tungsten oxide thin films by the reactive pulsed laser deposition technique
Lethy, KJ; Beena, D; Kumar, RV; Pillai, VPM; Ganesan, V; Sathe, V; Phase, DM
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING
Bandgap renormalization in titania modified nanostructured tungsten oxide thin films prepared by pulsed laser deposition technique for solar cell applications
Lethy, KJ; Beena, D; Pillai, VPM; Ganesan, V
JOURNAL OF APPLIED PHYSICS
Volume: 104 Issue: 3 Article Number: 033515 (2008)

Levell, J
Jack Levell
Research Student
University of St Andrews
Zero records

Li, FP
Fengping Li
Research Student
University of Strathclyde in Glasgow
3 records

A similar to 10kW W-Band Gyro-BWO using a Helically Corrugated Waveguide
Donaldson, CR; He, WL; Phelps, ADR; Li, FP; Cross, AW; Ronald, K; Young, AR; Whyte, CG
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 201-202 (2008)

The Design of a 390 GHz Gyrotron Based on a Cusp Electron Gun
Li, F; He, W; Phelps, ADR; Cross, AW; Donaldson, CR; Ronald, K
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 167-168 (2008)

The simulation of an high power 390GHz large-orbit harmonic gyrotron
Li, FP
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE

Li, H
Hongxia Li
Research Student
Heriot-Watt University
1 record

Three-core tellurite fiber with multiple rare earth emission
Bookey, HT; Thomson, RP; Psaila, ND; Kar, AK; Lousteau, J; Jha, A; Gayraud, N; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 238-239 (2008)
Li, M
Martin Li
Research Student
The University of Edinburgh
1 record

*Trapping multiple particles in single optical tweezers*
Li, M; Arlt, J
OPTICS COMMUNICATIONS

Liang, GY
Guiyun Liang
Researcher
University of Strathclyde in Glasgow
4 records

*Soft X-ray emissions of highly charged Si VII Si XII in cool star - Procyon*
Liang, GY; Zhao, G
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*Electron density diagnostic for hot plasmas in the coronal regime by using B-like ions*
Liang, GY; Zhao, G
ASTRONOMICAL JOURNAL

*Soft X-ray spectroscopy of highly charged silicon ions in dense plasmas*
Liang, GY; Zhao, G; Zhong, JY; Li, YT; Liu, YQ; Dong, QL; Yuan, XH; Jin, Z; Zhang, J
ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES

*R-matrix inner-shell electron-impact excitation of Fe15+ including Auger-plus-radiation damping*
Liang, GY; Whiteford, AD; Badnell, NR
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS
Volume: 41 Issue: 23 Article Number: 235203 (2008)

Liang, X
Xiaoying Liang
Researcher
University of the West of Scotland
3 records

*Decay of a narrow and high spin Mg-24+Mg-24 resonance*
Salsac, MD; Haas, F; Courtin, S; Algara, A; Beck, C; Beghini, S; Behera, BR; et al.
NUCLEAR PHYSICS A

*beta decay spectroscopy of Pt-192 and the nature of 0(+) excitations*
McCutchan, EA; Casten, RF; Werner, V; Winkler, R; Cakirli, RB; Gurdal, G; Liang, X; Williams, E
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 014320 (2008)
Structure of neutron-rich Ar isotopes beyond N=28
Bhattacharyya, S; Rejmund, M; Navin, A; Caurier, E; Nowacki, F; Poves, A; Chapman, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 3 Article Number: 032501 (2008)

Current Research
My current research is focused on study gamma-ray spectroscopy on neutron-rich nuclei. Studies of atomic nuclei far from the valley of stability provide a unique opportunity to increase our understanding of nuclear interactions in extreme conditions and often challenge theoretical models. In exotic nuclei, far from the valley of beta-stability, a small change in the numbers of protons (Z) and neutrons (N) can drastically modify their internal structure and lead to new nuclear phenomena. Fundamental information to understand how nuclear structure and internal interactions between protons and neutrons are affected by such variations is desirable both theoretically and experimentally.

Lind, H
Helena Lind
Research Student
Heriot-Watt University
Zero records

Liu, S
Siming Liu
Researcher
University of Glasgow
3 records

Stochastic acceleration in the western hot spot of Pictor A
Fan, ZH; Liu, SM; Wang, JM; Fryer, CL; Li, H
ASTROPHYSICAL JOURNAL LETTERS
Volume: 673 Issue: 2 Pages: L139-L142 (2008)

Linearly and circularly polarized emission in Sagittarius A
Huang, L.; Liu, S; Shen, ZQ; Cai, MJ; Li, H; Fryer, CL
ASTROPHYSICAL JOURNAL LETTERS

Stochastic electron acceleration in shell-type supernova remnants
Liu, SM; Fan, ZH; Fryer, CL; Wang, JM; Li, H
ASTROPHYSICAL JOURNAL LETTERS

Current Research
My research focuses on the origin of very energetic particles in solar flares and high energy astrophysical sources. In particular, I am using observations to probe the particle acceleration by turbulent electromagnetic fields in solar flares, low-luminosity supermassive black holes, radio galaxies, and supernova remnants.

Liu, Z
Zhong Liu
Researcher
The University of Edinburgh
Zero records
Cross sections and beam asymmetries for $\text{(e)over-right-arrow p} \rightarrow e n \pi^+$ in the nucleon resonance region for $1.7 \leq Q^2 \leq 4.5$ GeV$^2$

Park, K; Burkert, VD; Kim, W; Aznauryan, IG; Minehart, R; Smith, LC; Joo, K; et al.

PHYSICAL REVIEW C
Volume: 77 Issue: 1 Article Number: 015208 (2008)

Bayesian analysis of pentaquark signals from CLAS data

Ireland, DG; McKinnon, B; Protopopescu, D; Ambrozwicz, P; Anghinolfi, M; Asryan, G; et al.

PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 5 Article Number: 052001 (2008)

Incoherent neutral pion photoproduction on C-12

Tarbert, CM; Watts, DP; Aguier, P; Ahrens, J; Annand, JRM; Arends, HJ; Beck, R; et al.

PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 13 Article Number: 132301 (2008)

Measurement of deeply virtual compton scattering beam-spin asymmetries

Girod, FX; Niyazov, RA; Avakian, H; Ball, J; Bedlinskiy, I; Burkert, VD; De Masi, R; et al.

PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 16 Article Number: 162002 (2008)

Measurement of $\text{ep} \rightarrow \text{ep} \pi^0$ beam spin asymmetries above the resonance region

De Masi, R; Garcon, M; Zhao, B; Amaryan, MJ; Ambrozwicz, P; Anghinolfi, M; et al.

PHYSICAL REVIEW C
Volume: 77 Issue: 4 Article Number: 042201 (2008)

Polarized structure function $\sigma^{LT}$ for H-1($\text{(e)over-right-arrow e'})K(+)\Lambda$ in the nucleon resonance region

Nassiripour, R; Raue, BA; Carman, DS; Ambrozwicz, P; Amaryan, MJ; Anciant, E; et al.

PHYSICAL REVIEW C
Volume: 77 Issue: 6 Article Number: 065208 (2008)

Light vector mesons in the nuclear medium

Wood, MH; Nassiripour, R; Weygand, DP; Djalali, C; Tur, C; Mosel, U; Muehlich, P; et al.

PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015201 (2008)

Ratios of $N-15/C-12$ and $He-4/C-12$ inclusive electroproduction cross sections in the nucleon resonance region

Bosted, PE; Fersch, R; Adams, G; Amarian, M; Anefalos, S; Anghinolfi, M; Asryan, G; et al.

PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015202 (2008)

Electroproduction of $\phi(1020)$ mesons at $1.4 \leq Q^2 \leq 3.8$ GeV$^2$ measured with the CLAS spectrometer

Santoro, JP; Smith, ES; Garcon, M; Guidal, M; Laget, JM; Weiss, C; Adams, G; et al.

PHYSICAL REVIEW C
Volume: 78 Issue: 2 Article Number: 025210 (2008)
Electroexcitation of the Roper resonance for $1.7 < Q(2) < 4.5$ GeV$^2$ in $ep \rightarrow en\pi^+$
Aznauryan, IG; Burkert, VD; Kim, W; Park, K; Adams, G; Amaryan, MJ; Ambrozewicz, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045209 (2008)

First measurement of target and double spin asymmetries for $ep \rightarrow ep\pi(0)$ in the nucleon resonance region above the $\Delta(1232)$
Biselli, AS; Burkert, VD; Amaryan, MJ; Asryan, G; Avakian, H; Bagdasaryan, H; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045204 (2008)

Livingstone, R
Ruth Livingstone
Research Student
Heriot-Watt University
Zero records

Loa, I
Ingo Loa
Researcher
The University of Edinburgh
1 record

High-pressure phases of lithia Li$_2$O: First-principles calculations
Kunc, K; Loa, I; Syassen, K
PHYSICAL REVIEW B
Volume: 77 Issue: 9 Article Number: 094110 (2008)

Locharoenrat, K
Kitsakorn Locharoenrat
Researcher
University of Strathclyde in Glasgow
2 records

Rotational anisotropy in second harmonic intensity from Cu nanowire arrays on the NaCl (110) substrates
Locharoenrat, K; Sano, H; Mizutani, G
'Proceedings of the 16th International Conference on Dynamical Processes in Excited States of Solids',
JUN 17-22, 2007, Segovia, SPAIN
JOURNAL OF LUMINESCENCE

Field enhancement in arrays of copper nanowires investigated by the finite-difference time-domain method
Locharoenrat, K; Sano, H; Mizutani, G
'Proceedings of the 6th International Symposium on Atomic Level Characterization for New Materials and Devices', OCT 28-NOV 02, 2007, Kanazawa, JAPAN
SURFACE AND INTERFACE ANALYSIS

Lockerbie, NA
Nick Lockerbie
Researcher
University of Strathclyde in Glasgow
10 records
All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

239
**Logie, S**  
Shona Logie  
Research Student  
The University of Edinburgh  
Zero records

**Long, AR**  
Andrew Long  
Academic  
University of Glasgow  
1 record

*Gallium oxide and gadolinium gallium oxide insulators on Si delta-doped GaAs/AlGaAs heterostructures*  
Paterson, GW; Longo, P; Wilson, JA; Craven, AJ; Long, AR; Thayne, IG; Passlack, M; Droopad, R  
JOURNAL OF APPLIED PHYSICS  
Volume: 104 Issue: 10 Article Number: 103719 (2008)

**Longo, P**  
Paolo Longo  
Researcher  
University of Glasgow  
4 records

*Gallium oxide and gadolinium gallium oxide insulators on Si delta-doped GaAs/AlGaAs heterostructures*  
Paterson, GW; Longo, P; Wilson, JA; Craven, AJ; Long, AR; Thayne, IG; Passlack, M; Droopad, R  
JOURNAL OF APPLIED PHYSICS  
Volume: 104 Issue: 10 Article Number: 103719 (2008)

*EFTEM and EELS SI: tools for investigating the effects of etching processes for III-V MOSFET devices - art. no. 012053*  
Longo, P; Scott, J; Craven, AJ; Hill, RJW; Thayne, IG  
EMAG: ELECTRON MICROSCOPY AND ANALYSIS GROUP CONFERENCE 2007, JOURNAL OF PHYSICS CONFERENCE SERIES  

*Elemental Profiling of III-V MOSFET High-k Dielectric Gate Stacks Using EELS Spectrum Imaging*  
Longo, P; Craven, AJ; Scott, J; Holland, M; Thayne, I  
MICROSCOPY OF SEMICONDUCTING MATERIALS 2007, SPRINGER PROCEEDINGS IN PHYSICS  

*III-V MOSFETs for Digital Applications with Silicon Co-Integration*  
Kalna, K; Asenov, A; Ayubi-Moak, JS; Craven, AJ; Droopad, R; Hill, R; Holland, MC; et al.  
'Proceedings of the 7th International Conference on Advanced Semiconductor Devices and Microsystems', OCT 12-16, 2008, Smolenice, SLOVAKIA  
ASDAM 2008, CONFERENCE PROCEEDINGS  
Lorenz, N
Norbert Lorenz
Research Student
Heriot-Watt University
1 record

Hermetic joining of micro-devices using a glass frit intermediate layer and a scanning laser beam
Wu, Q; Lorenz, N; Cannon, K; Wang, CH; Moore, AJ; Hand, DP
'Proceedings of the 2nd Electronics System-Integration Technology Conference', SEP 01-04, 2008, Greenwich, ENGLAND
ESTC 2008: 2ND ELECTRONICS SYSTEM-INTEGRATION TECHNOLOGY CONFERENCE, VOLS 1 AND 2, PROCEEDINGS
Pages: 669-677 (2008)

Lotay, G
Gavin Lotay
Research Student
The University of Edinburgh
3 records

First in-beam gamma-ray spectroscopy study of Al-24 and its implications for the astrophysical Mg-23(p,gamma)Al-24 reaction rate in ONe novae
Lotay, G; Woods, PJ; Seweryniak, D; Carpenter, MP; Hoteling, N; Janssens, RVF; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 4 Article Number: 042802 (2008)

Analog E1 transitions and isospin mixing
Pattabiraman, NS; Jenkins, DG; Bentley, MA; Wadsworth, R; Lister, CJ; Carpenter, MP; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 2 Article Number: 024301 (2008)

Single-neutron states in Sn-101
Seweryniak, D; Carpenter, MP; Gros, S; Hecht, AA; Hoteling, N; Janssens, RVF; et al.
FRONTIERS IN NUCLEAR STRUCTURE, ASTROPHYSICS, AND REACTIONS - FINUSTAR 2, AIP CONFERENCE PROCEEDINGS
Volume: 1012 Pages: 79-83 (2008)

Loveday, JS
John Loveday
Researcher
The University of Edinburgh
1 record

High-pressure gas hydrates
Loveday, JS; Nelmes, RJ
PHYSICAL CHEMISTRY CHEMICAL PHYSICS

Lu, W
Wei-Ping Lu
Academic
Heriot-Watt University
Zero records
Lubeigt, W
Walter Lubeigt
Researcher
University of Strathclyde in Glasgow
2 records

Enhancement of laser performance using an intracavity deformable membrane mirror
Lubeigt, W; Valentine, G; Burns, D
OPTICS EXPRESS

Transient Laser Brightness Enhancement using a Large-stroke Bimorph Mirror
Lubeigt, W; Griffith, M; Laycock, L; Burns, D
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 2403-2404 (2008)

Luckert, F
Franziska Luckert
Research Student
University of Strathclyde in Glasgow
Zero records

Luo, R
Rui Luo
Research Student
University of Glasgow
1 record

Leptogenesis in the exceptional supersymmetric standard model: flavour dependent lepton asymmetries
King, SF; Luo, R; Miller, DJ; Nevzorov, R
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 12 Article Number: 042 (2008)

Lusk, D
David Lusk
Researcher
University of the West of Scotland
1 record

Thick DLC films deposited by PECVD on the internal surface of cylindrical substrates
Lusk, D; Gore, M; Boardman, W; Casserly, T; Boinapally, K; Oppus, M; Upadhyaya, D; et al.
DIAMOND AND RELATED MATERIALS

Lynn, S
Stuart Lynn
Research Student
The University of Edinburgh
Zero records
Ma, N
Nan Ma
Research Student
University of St Andrews
1 record

Fibre based cellular transfection
Tsampoula, X; Taguchi, K; Cizmar, T; Garces-Chavez, V; Ma, N; Mohanty, S; Mohanty, K; et al.
OPTICS EXPRESS

Current Research
My current research can be described as: 'Gene transfer to animal cells and tissue using optical method'.

Macfarlane, D
David Macfarlane
Researcher
University of St Andrews
1 record

Lava dome growth and mass wasting measured by a time series of ground-based radar and seismicity observations
Wadge, G; Macfarlane, DG; Odbert, HM; James, MR; Hole, JK; Ryan, G; Bass, V; et al.
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH
Volume: 113 Issue: B8 Article Number: B08210 (2008)

MacGregor, IJ
Douglas MacGregor
Academic
University of Glasgow
3 records

New results on the Roper resonance and the P-11 partial wave
Sarantsev, AV; Fuchs, M; Kotulla, M; Thoma, U; Ahrens, J; Annand, JRM; Anisovich, AV; et al.
PHYSICS LETTERS B
Volume: 659 Issue: 01-Feb Pages: 94-100 (2008)

Incoherent neutral pion photoproduction on C-12
Tarbert, CM; Watts, DP; Aguar, P; Ahrens, J; Annand, JRM; Arends, HJ; Beck, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 13 Article Number: 132301 (2008)

He-3(e,e'pp) and He-3(e,e'pn) reactions at AmPS and MAMI
Middleton, DG; Annand, JRM; Antelo, MA; Ayerbe, C; Barneo, P; Baumann, D; Bermuth, J; et al.
FEW-BODY SYSTEMS, SPRINGER WIEN

MacInnes, P
Philip MacInnes
Research Student
University of Strathclyde in Glasgow
4 records
Free-electron maser based on a cavity with two- and one-dimensional distributed feedback
Konoplev, IV; Cross, AW; MacInnes, P; He, W; Phelps, ADR; Whyte, CG; Ronald, K; Robertson, CW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 21 Article Number: 211501 (2008)

Wave propagation and tunneling through periodic structures
Konoplev, IV; MacInnes, P; Cross, AW; Phelps, ADR; Fisher, L; Ronald, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 23 Article Number: 231110 (2008)

Helically corrugated waveguides for compression of microwave pulses
McStravick, M; Samsonov, SV; Cross, AW; Denisov, GG; He, W; MacInnes, P; Phelps, ADR; et al.
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 181-182 (2008)

High Power Masers based on 2D periodic structures: from the GHz to THz frequency range
Fisher, L; MacInnes, P; Konoplev, IV; Cross, AW; He, W; Ronald, K; Phelps, ADR; et al.
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 418-419 (2008)

Mackenzie, AP
Andrew Mackenzie
Academic
University of St Andrews
4 records

Effect of electron doping the metamagnet Sr3-yLayRu2O9
Farrell, J; Perry, RS; Rost, A; Mercure, JF; Kikugawa, N; Grigera, SA; Mackenzie, AP
PHYSICAL REVIEW B
Volume: 78 Issue: 18 Article Number: 180409 (2008)

de Haas-van Alphen oscillations in the charge density wave compound lanthanum tritelluride LaTe3
Ru, N; Borzi, RA; Rost, A; Mackenzie, AP; Laverock, J; Dugdale, SB; Fisher, IR
PHYSICAL REVIEW B
Volume: 78 Issue: 4 Article Number: 045123 (2008)

Fermi surface and van hove singularities in the itinerant metamagnet Sr3Ru2O10
Tamai, A; Allan, MP; Mercure, JF; Meevasana, W; Dunkel, R; Lu, DH; Perry, RS; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 2 Article Number: 026407 (2008)

Quantum oscillations in an overdoped high-T-c superconductor
Vignolle, B; Carrington, A; Cooper, RA; French, MMJ; Mackenzie, AP; Jaudet, C; et al.
NATURE
Current Research
Professor Andy Mackenzie FRSE is Director of Research in the School of Physics and Astronomy at St Andrews and currently leads the Condensed Matter and Materials Physics Theme of SUPA. His personal research interests concern the low temperature physics of oxide metals and superconductors, and he has close collaborative links with groups at Bristol and Cambridge in the UK, Stanford and Cornell in the USA, and Kyoto in Japan. Prior to coming to St. Andrews in 2001 he was at Cambridge from 1987-1997 and then at Birmingham. Further details can be found at: http://www.standrews.ac.uk/physics/PHP_Global/Staff_Info.php?id=67

Mackey, D
Dougal Mackey
Researcher
The University of Edinburgh
7 records

Simple stellar population models as probed by the Large Magellanic Cloud star cluster ESO 121-SC03
Xin, Y; Deng, L; de Grijs, R; Mackey, AD; Han, Z
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Black holes and core expansion in massive star clusters
Mackey, AD; Wilkinson, MI; Davies, MB; Gilmore, GF
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Multiple stellar populations in three rich large Magellanic Cloud star clusters
Mackey, AD; Nielsen, PB; Ferguson, AMN; Richardson, JC
ASTROPHYSICAL JOURNAL LETTERS

The nucleus of the sagittarius dSph galaxy and M54: A window on the process of galaxy nucleation
Bellazzini, M; Ibata, RA; Chapman, SC; Mackey, AD; Monaco, L; Irwin, MJ; Martin, NF; et al.
ASTRONOMICAL JOURNAL

Is our Sun a singleton?
Davies, MB; Malmberg, D; Chambers, JE; Church, RP; De Angeli, F; Mackey, D; Wilkinson, MI
PHYSICA SCRIPTA
Volume: T130 Article Number: 014030 (2008)

Globular clusters in the local universe
Mackey, D
Proceedings of the Frank N Bash Symposium on New Horizons Astronomy, OCT 14-16, 2007, Austin, TX
NEW HORIZONS IN ASTRONOMY: FRANK N. BASH SYMPOSIUM 2007, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES

The Singleton Fraction of Stars Formed in Stellar Clusters
Malmberg, D; Davies, MB; Chambers, JE; Church, RP; De Angeli, F; Mackey, D; Wilkinson, MI
EXTREME SOLAR SYSTEMS, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Fischer, D, Rasio, FA, Thorsett, SE, Wolszczan, A (Eds)
MacLachlan, CS
Craig MacLachlan
Research Student
University of Glasgow
Zero records

MacLaren, D
Donald MacLaren
Researcher
University of Glasgow
3 records

An optical profilometer for characterizing complex surfaces under high vacuum conditions
Fladischer, K; Litwin, D; Galas, J; Weeks, AE; MacLaren, DA; Lammegger, R; et al.
PRECISION ENGINEERING-JOURNAL OF THE INTERNATIONAL SOCIETIES FOR
PRECISION ENGINEERING AND NANOTECHNOLOGY

Coverage-dependent quantum versus classical scattering of thermal neon atoms from
Li/Cu(100)
MacLaren, DA; Huang, C; Levi, AC; Allison, W
JOURNAL OF CHEMICAL PHYSICS

Simulation and analysis of solenoidal ion sources
Alderwick, AR; Jardine, AP; Hedgeland, H; MacLaren, DA; Allison, W; Ellis, J
REVIEW OF SCIENTIFIC INSTRUMENTS
Volume: 79 Issue: 12 Article Number: 123301 (2008)

MacLaren, I
Ian MacLaren
Academic
University of Glasgow
5 records

Measurements of a low-temperature mechanical dissipation peak in a single layer of Ta2O5
doped with TiO2
Martin, I; Armandula, H; Comtet, C; Fejer, MM; Gretarsson, A; Harry, G; Hough, J; et al.
EUROPEAN JOURNAL OF PHYSICS
Volume: 29 Issue: 2 (2008)

HREM studies of intergrowths in Sr-2[Srn-1TinO3n+1] Ruddlesden-Popper phases
synthesized by mechanochemical activation
Hungria, T; MacLaren, I; Fueß, H; Galy, J; Castro, A
MATERIALS LETTERS

Electron backscatter diffraction mapping of herringbone domain structures in tetragonal
piezoelectrics
Farooq, MU; Villaurrutia, R; MacLaren, I; Burnett, TL; Comyn, TP; Bell, AJ; Kungl, H; Hoffmann, MJ
JOURNAL OF APPLIED PHYSICS
Volume: 104 Issue: 2 Article Number: 024111 (2008)
Origins of ferromagnetism in transition-metal doped Si
Ko, V; Teo, KL; Liew, T; Chong, TC; MacKenzie, M; MacLaren, I; Chapman, JN
JOURNAL OF APPLIED PHYSICS
Volume: 104 Issue: 3 Article Number: 033912 (2008)

Using EBSD and TEM-Kikuchi patterns to study local crystallography at the domain boundaries of lead zirconate titanate
Farooq, MU; Villaurrutia, R; MacLaren, I; Kungl, H; Hoffmann, MJ; Fundenberger, JJ; Bouzy, E
JOURNAL OF MICROSCOPY-OXFORD, BLACKWELL PUBLISHING

Maclean, AJ
Alex James MacLean
Research Student
University of Strathclyde in Glasgow
4 records

Thermal management in 2.3-µm semiconductor disk lasers: A finite element analysis
Kemp, AJ; Hopkins, JM; Maclean, AJ; Schulz, N; Rattunde, M; Wagner, J; Burns, D
IEEE JOURNAL OF QUANTUM ELECTRONICS

Continuous tuning and efficient intracavity second-harmonic generation in a semiconductor disk laser with an intracavity diamond heatspreader
Maclean, AJ; Kemp, AJ; Calvez, S; Kim, JY; Kim, T; Dawson, MD; Burns, D
IEEE JOURNAL OF QUANTUM ELECTRONICS

Efficiency and Beam Quality Analysis of a Semiconductor Disk Laser
Roth, P; Maclean, AJ; Kemp, AJ; Calvez, S; Dawson, MD; Burns, D
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 1806-1807 (2008)

Power-Scaling of a 1060nm Semiconductor Disk Laser with a Diamond Heatspreader
Maclean, AJ; Kemp, AJ; Burns, D
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 2065-2066 (2008)

Macmillan, AM
Alex Macmillan
Research Student
University of Strathclyde in Glasgow
2 records
Effect of pH on aqueous phenylalanine studied using a 265-nm pulsed light-emitting diode
Macmillan, AM; McGuinness, CD; Sagoo, K; McLoskey, D; Pickup, JC; Birch, DJS
'Proceedings of the 10th International Conference on Methods and Applications of Fluorescence - Spectroscopy, Imaging and Probes', SEP 09-12, 2007, Salzburg, AUSTRIA
FLUORESCENCE METHODS AND APPLICATIONS: SPECTROSCOPY, IMAGING, AND PROBES, ANNALS OF THE NEW YORK ACADEMY OF SCIENCES

Toward single-metal-ion sensing by Forster resonance energy transfer
Sutter, JU; Macmillan, AM; Birch, DJS; Rolinski, OJ
'Proceedings of the 10th International Conference on Methods and Applications of Fluorescence - Spectroscopy, Imaging and Probes', SEP 09-12, 2007, Salzburg, AUSTRIA
FLUORESCENCE METHODS AND APPLICATIONS: SPECTROSCOPY, IMAGING, AND PROBES, ANNALS OF THE NEW YORK ACADEMY OF SCIENCES

MacPhee, CE
Cait Macphee
Academic
The University of Edinburgh
3 records

Functionalised amyloid fibrils for roles in cell adhesion
Gras, SL; Tickler, AK; Squires, AM; Devlin, GL; Horton, MA; Dobson, CM; MacPhee, CE
BIOMATERIALS

Modification of fluorophore photophysics through peptide-driven self-assembly
Channon, KJ; Devlin, GL; Magennis, SW; Finlayson, CE; Tickler, AK; Silva, C; MacPhee, CE
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

Possibilities for 'smart' materials exploiting the self-assembly of polypeptides into fibrils
Channon, K; MacPhee, CE
SOFT MATTER

MacPherson, WN
Bill MacPherson
Academic
Heriot-Watt University
5 records

Mid-infrared gas sensing using a photonic bandgap fiber
Gayraud, N; Kornaszewski, LW; Stone, JM; Knight, JC; Reid, DT; Hand, DP; MacPherson, WN
APPLIED OPTICS

Two-axis temperature-insensitive accelerometer based on multicore fiber Bragg gratings
Fender, A; MacPherson, WN; Maier, RRJ; Barton, JS; George, DS; Howden, RI; et al.
'Proceedings of the 3rd European Workshop on Optical Fiber Sensors', 2007, Naples, ITALY
IEEE SENSORS JOURNAL
Volume: 8 Issue: 7-8 Pages: 1292-1298 (2008)
Radial deformation measurement of a cylinder under compression using multicore fibre - art. no. 70040G
Fender, A; MacPherson, WN; Maier, RRJ; Barton, JS; Jones, JDC; Ellis, KS; Leppard, CL; et al.
'Proceedings of the 19th International Conference on Optical Fibre Sensors', APR 15-18, 2008, Perth, AUSTRALIA
19TH INTERNATIONAL CONFERENCE ON OPTICAL FIBRE SENSORS, PTS 1 AND 2, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Sampson, D, Collins, S, Oh, K, Yamauchi, R (Eds)

Three-core tellurite fiber with multiple rare earth emission
Bookey, HT; Thomson, RP; Psaila, ND; Kar, AK; Lousteau, J; Jha, A; Gayraud, N; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 238-239 (2008)

Ultrafast laser inscription of a three dimensional fan-out device for multicore fiber coupling applications
Thomson, RR; Bookey, HT; Psaila, ND; Fender, A; Campbell, S; Macpherson, WN; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2812-2813 (2008)

Current Research
My research interests lie in application of optics to instrumentation and measurement. In particular, I have an interest in optical fibre sensors. Much of this work has an industry application. It has included pressure and temperature measurement in aeroengine test facilities and explosions, multi-point optical techniques for vibration measurement. Recently I have been involved in research into gas sensing using novel fibres, applications of microstructured fibres, and sensing using multicore fibres. Further information of some of these research areas can be found at http://www.aop.hw.ac.uk/

MacRaighne, A
Aaron MacRaighne
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University of Glasgow
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Magennis, M
Marisa Magennis
Research Student
The University of Edinburgh
Zero records

Mahon, D
David Mahon
Research Student
University of Glasgow
3 records

Cross sections for hard exclusive electroproduction of pi(+) mesons on a hydrogen target
Airapetian, A; Akopov, N; Akopov, Z; Aschenauer, EC; Augustyniak, W; Avetissian, A; et al.
PHYSICS LETTERS B
Volume: 659 Issue: 3 Pages: 486-492 (2008)
Measurement of azimuthal asymmetries with respect to both beam charge and transverse target polarization in exclusive electroproduction of real photons
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 066 (2008)

Measurement of parton distributions of strange quarks in the nucleon from charged-kaon production in deep-inelastic scattering on the deuteron
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
PHYSICS LETTERS B
Volume: 666 Issue: 5 Pages: 446-450 (2008)

Maier, RRJ
Robert Maier
Researcher
Heriot-Watt University
3 records

Two-axis temperature-insensitive accelerometer based on multicore fiber Bragg gratings
Fender, A; MacPherson, WN; Maier, RRJ; Barton, JS; George, DS; Howden, RI; et al.
'Proceedings of the 3rd European Workshop on Optical Fiber Sensors', 2007, Naples, ITALY
IEEE SENSORS JOURNAL
Volume: 8 Issue: 7-8 Pages: 1292-1298 (2008)

Radial deformation measurement of a cylinder under compression using multicore fibre - art. no. 70040G
Fender, A; MacPherson, WN; Maier, RRJ; Barton, JS; Jones, JDC; Ellis, KS; Leppard, CL; et al.
'Proceedings of the 19th International Conference on Optical Fibre Sensors', APR 15-18, 2008, Perth, AUSTRALIA
19TH INTERNATIONAL CONFERENCE ON OPTICAL FIBRE SENSORS, PTS 1 AND 2, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Sampson, D, Collins, S, Oh, K, Yamauchi, R (Eds)

Ratiometric interrogation of dynamically strained fiber Bragg gratings - art. no. 70040A
Maier, RRJ; Barton, JS; Kuhn, M
'Proceedings of the 19th International Conference on Optical Fibre Sensors', APR 15-18, 2008, Perth, AUSTRALIA
19TH INTERNATIONAL CONFERENCE ON OPTICAL FIBRE SENSORS, PTS 1 AND 2, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Sampson, D, Collins, S, Oh, K, Yamauchi, R (Eds)
Current Research
Robert's research is focussed on fibre optic sensor [FOS] technology and its application in the engineering environment, essentially measuring with light. Optical sensing is using the wavelength of light as a ruler. Fibre optic sensing offers a near unique ability to carry out distributed or quasi distributed sensing over long lengths (many kilometres) of fibre with high spatial resolution. FOS has a high immunity to electro magnetic fields and can operate in harsh and hostile environments including nuclear environments. In-fibre grating sensors (Fibre Bragg gratings and Long period gratings) can be ideal sensor components for a wide range of physical, mechanical and chemical sensor applications with. The ability to multiplex many sensors along a single length of fibre not only greatly simplifies installation in complex environments but also allows spatial discrimination and the wavelength encoded nature of the signal makes these sensors ideally suited to harsh environments. We have developed a wide range of sensor solutions and interrogation techniques for barometric pressure, location, shape, vibration and distance sensing in complex engineering environments. More recently our research concentrated on the application of Rayleigh back scatter technology for distributed sensing with high spatial and measurand resolution. This research is aimed at ground breaking new developments in distributed shape and load monitoring in engineering components ranging from high resolution load mats to large scale silo structures. Rapid Manufacturing technology [RM] is quickly gaining a significant foot hold in the production of highly complex / high value / small volume components. We investigate the ability to integrate secondary components into the RM build process, including fibre optic sensor elements. These elements would enable in-situ monitoring of components with minimal interference on the design and manufacturing process paving the way towards smart materials.

Mailer, A
Alastair Mailer
Research Student
The University of Edinburgh
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Malins, D
David Malins
Research Student
University of St Andrews
Zero records

Mallik, P
Procheta Mallik
Research Student
University of Glasgow
2 records

Non-thermal recombination - a neglected source of flare hard X-rays and fast electron diagnostic
Brown, JC; Mallik, PCV
ASTRONOMY & ASTROPHYSICS

Development of a real-time Fast Neutron Imaging Telescope (FNIT) for the detection of SNM
Wooll, RS; Bravar, U; Legere, JS; Macri, JR; Mallik, P; Pirard, B; Ryan, JM
Mamatsashvili, G
George Mamatsashvili
Research Student
The University of Edinburgh
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Mancell, J
Joe Mancell
Research Student
University of Glasgow
Zero records

Maneuski, D
Dzmitry Maneuski
Research Student
University of Glasgow
3 records

Radiation hardness studies in a CCD with high-speed column parallel readout
Sopczak, A; Aoulmit, S; Bekhouche, K; Bowdery, C; Buttar, C; Damerell, C; Davies, G; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P05007 (2008)

Simulation of the charge transfer inefficiency of column parallel CCDs
Maneuski, D
'Proceedings of the 9th International Workshop on Radiation Imaging Detectors', JUL 22-26, 2007, Nuremberg, GERMANY
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Spectral characterisation and noise performance of Vanilla - an active pixel sensor
Blue, A; Bates, R; Bonhiek, SE; Clark, A; Costas, A; Greenshaw, T; Laing, A; et al.
'Proceedings of the 9th International Workshop on Radiation Imaging Detectors', JUL 22-26, 2007, Nuremberg, GERMANY
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Mann, RG
Bob Mann
Academic
The University of Edinburgh
3 records

The WFCAM science archive
Hambly, NC; Collins, RS; Cross, NJG; Mann, RG; Read, MA; Sutorius, ETW; Bond, I; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The luminosity-halo mass relation for brightest cluster galaxies
Brough, S; Couch, WJ; Collins, CA; Jarrett, T; Burke, DJ; Mann, RG
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Data preservation and the virtual observatory
Mann, RG
ASTRONOMICAL DATA ANALYSIS SOFTWARE AND SYSTEMS XVII, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES
Volume: 394 Pages: 3-13 (2008)

Marchington, R
Rob Marchington
Research Student
University of St Andrews
2 records

Optical deflection and sorting of microparticles in a near-field optical geometry
Marchington, RF; Mazilu, M; Kuriakose, S; Garces-Chavez, V; Reece, PJ; Krauss, TF; Gu, M; Dholakia, K
OPTICS EXPRESS

Novel dual beam fiber traps using endlessly single-mode photonic crystal fiber - art. no. 703828
Gherardi, DM; Carruthers, AE; Cizmar, T; Marchington, RF; Dholakia, K
'Proceedings of the Conference on Optical Trapped and Optical Micromanipulation V', AUG 10-13, 2008, San Diego, CA
OPTICAL TRAPPING AND OPTICAL MICROMANIPULATION V, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Dholakia, K, Spalding, GC (Eds)

Marenduzzo, D
Davide Marrenduzo
Academic
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8 records

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Alexander, GP; Marenduzzo, D
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Marinho, F
Franciolo Marinho
Research Student
University of Glasgow
1 record

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Marques, M
Miriam Marques
Researcher
The University of Edinburgh
2 records

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On the mechanism of the zircon-reidite pressure induced transformation
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CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Martin, R
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Researcher
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Zero records

Martin, RW
Robert Martin
Academic
University of Strathclyde in Glasgow
17 records

Luminescence spectroscopy of Eu-implanted zincblende GaN
Roqan, IS; O'Donnell, KP; Trager-Cowan, C; Hourahine, B; Martin, RW; Lorenz, K; et al.
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Optical spectroscopy of free excitons in a CuInS2 chalcopyrite semiconductor compound
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PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE
Arrays of selectively grown GaN micro-pyramids: photonic and optical-frequency phonon properties - art. no. 69890J
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Martin, V
Victoria Martin
Academic
The University of Edinburgh
40 records

First observation of the decay B-s(0)-> Ds-Ds+ and measurement of its branching ratio
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Measurement of the cross section for W-boson production in association with jets in p(p)over-bar collisions at root s=1.96 TeV
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First run II measurement of the W boson mass at the Fermilab Tevatron
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Search for resonant t(\bar{t}) production in p(p)\overline{p} collisions at root s=1.96 TeV
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Model-independent and quasi-model-independent search for new physics at CDF
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Volume: 78 Issue: 1 Article Number: 012002 (2008)
Search for new heavy particles decaying to Z(0)Z(0)-> eeee in p(p)over-bar collisions at root s=1.96 TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
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PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 032015 (2008)

Search for pair production of scalar top quarks decaying to a tau lepton and a b quark in p(p)over-bar collisions at root s=1.96 TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
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Search for standard model Higgs boson production in association with a W boson at CDF
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PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 032008 (2008)

Measurement of the inclusive jet cross section at the Fermilab Tevatron p(p)over-bar collider using a cone-based jet algorithm
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 052006 (2008)

Search for doubly charged Higgs bosons with lepton-flavor-violating decays involving tau leptons
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 12 Article Number: 121801 (2008)

Measurement of b-jet shapes in inclusive jet production in p overline p collisions at sqrt(s)=1.96 TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 072005 (2008)

Search for Large Extra Dimensions in Final States Containing One Photon or Jet and Large Missing Transverse Energy Produced in pp Collisions at s=1.96 TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW LETTERS

Forward-Backward Asymmetry in Top-Quark Production in p(p)over-bar Collisions at root s=1.96 TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 20 Article Number: 202001 (2008)

Search for the Flavor-Changing Neutral-Current Decay t -> Zq in pp Collisions at s=1.96 TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Alvarez Gonzalez, B; Amerio, S; et al.
PHYSICAL REVIEW LETTERS
First measurement of the fraction of top-quark pair production through gluon-gluon fusion
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 111101 (2008)

Measurement of the Single-Top-Quark Production Cross Section at CDF
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Alvarez Gonzalez, B; Amerio, S; et al.
PHYSICAL REVIEW LETTERS

Search for Supersymmetry in $p(p)\overline{p}$ Collisions at root $s=1.96$ TeV Using the Trilepton Signature for Chargino-Neutralino Production
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Alvarez Gonzalez, B; Amerio, S; et al.
PHYSICAL REVIEW LETTERS

Search for the Higgs Boson Produced in Association with $Z \rightarrow l^+(+l^(-)$ in $p(p)\overline{p}$ Collisions at root $s=1.96$ TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Alvarez Gonzalez, B; Amerio, S; et al.
PHYSICAL REVIEW LETTERS

Current Research
My current research is into physics at high energy particle colliders. I am a member of the CDF experiment at Fermilab Tevatron proton - anti-proton collider and I am working toward membership of the ATLAS collaboration at the CERN LHC proton - proton collider. I am also working on the International Linear Collider project, which is investigating the feasibility and potential of a high energy electron - positron collider. The aim of all these projects is to discover the underlying theory of nature at sub-atomic length scales, which will hopefully include the discovery and exploration of the Higgs boson.

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Marzani, S
Simone Marzani
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Higgs production via gluon-gluon fusion with finite top mass beyond next-to-leading order
Marzani, S; Ball, RD; Del Duca, V; Forte, S; Vicini, A
NUCLEAR PHYSICS B

Massey, R
Richard Massey
Researcher
The University of Edinburgh
7 records
**Weak-lensing ellipticities in a strong-lensing regime**
Massey, R; Goldberg, DM
ASTROPHYSICAL JOURNAL LETTERS

**The H alpha luminosity function and star formation rate at z approximate to 0.24 in the COSMOS 2 square degree field**
Shioya, Y; Taniguchi, Y; Sasaki, SS; Nagao, T; Murayama, T; Takahashi, MI; et al.
ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES

**Combined analysis of weak lensing and X-ray blind surveys**
Berge, J; Pacaud, F; Refregier, A; Massey, R; Pierre, M; Amara, A; Birkinshaw, M; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

**First catalog of strong lens candidates in the COSMOS field**
Faure, C; Kneib, JP; Covone, G; Tasca, L; Leauthaud, A; Capak, P; Jahnke, K; et al.
ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES

**A comparison of weak-lensing measurements from ground- and space-based facilities**
Kasliwal, MM; Massey, R; Ellis, RS; Miyazaki, S; Rhodes, J
ASTROPHYSICAL JOURNAL

**Color, 3D simulated images with shapelets**
Ferry, M; Rhodes, J; Massey, R; White, M; Coe, D; Mobasher, B
ASTROPARTICLE PHYSICS

**REVEALING THE PROPERTIES OF DARK MATTER IN THE MERGING CLUSTER MACS J0025.4-1222**
Bradac, M; Allen, SW; Treu, T; Ebeling, H; Massey, R; Morris, RG; Von Der Linden, A; Applegate, D
ASTROPHYSICAL JOURNAL

**Massoubre, D**
David Massoubre
Researcher
University of Strathclyde in Glasgow
4 records

**Efficient flip-chip InGaN micro-pixellated light-emitting diode arrays: Promising candidates for micro-displays and colour conversion**
Gong, Z; Gu, E; Jin, SR; Massoubre, D; Guilhabert, B; Zhang, HX; Dawson, MD; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094002 (2008)

**The 310-340nm ultraviolet light emitting diodes grown using a thin GaN interlayer on a high temperature AlN buffer**
Wang, T; Lee, KB; Bai, J; Parbrook, PJ; Ranalli, F; Wang, Q; Airey, RJ; Cullis, AG; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
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Individually-addressable flip-chip AlInGaN micropixelated light emitting diode arrays with high continuous and nanosecond output power
Zhang, HX; Massoubre, D; McKendry, J; Gong, Z; Guilhabert, B; Griffin, C; Gu, E; et al.
OPTICS EXPRESS

Integration by self-aligned writing of nanocrystal/epoxy composites on InGaN micropixelated light-emitting diodes
Guilhabert, B; Elfstrom, D; Kuehne, AJC; Massoubre, D; Zhang, HX; Jin, SR; et al.
OPTICS EXPRESS

Mather, R
Robert Mather
Academic
Heriot-Watt University
Zero records

Matheson, K
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Zero records

Mathieson, K
Keith Mathieson
Researcher
University of Glasgow
Zero records

Matthew, S
Shona Matthew
Research Student
University of St Andrews
Zero records

Maynard, CM
Chris Maynard
Researcher
The University of Edinburgh
4 records

Localization and chiral symmetry in three flavor domain wall QCD
Antonio, DJ; Bowler, KC; Boyle, PA; Christ, NH; Clark, MA; Cohen, SD; Dawson, C; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 014509 (2008)

The pion's electromagnetic form factor at small momentum transfer in full lattice QCD
Boyle, PA; Flynn, JM; Juttner, A; Kelly, C; de Lima, HP; Maynard, CM; Sachrajda, CT; Zanotti, JM
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 7 Article Number: 112 (2008)

Proton lifetime bounds from chirally symmetric lattice QCD
Aoki, Y; Boyle, P; Cooney, P; Del Debbio, L; Kenway, R; Maynard, CM; Soni, A; Tweedie, R
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 054505 (2008)
Physical results from $2+1$ flavor domain wall QCD and SU(2) chiral perturbation theory
Allton, C; Antonio, DJ; Aoki, Y; Blum, T; Boyle, PA; Christ, NH; Clark, MA; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 114509 (2008)

Maynard, H
Helen Maynard
Research Student
The University of Edinburgh
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Mazilu, M
Michael Mazilu
Researcher
University of St Andrews
7 records

Optical deflection and sorting of microparticles in a near-field optical geometry
Marchington, RF; Mazilu, M; Kuriakose, S; Garces-Chavez, V; Reece, PJ; Krauss, TF; Gu, M; Dholakia, K
OPTICS EXPRESS

Optical vortex trap for resonant confinement of metal nanoparticles
Dienerowitz, M; Mazilu, M; Reece, PJ; Krauss, TF; Dholakia, K
OPTICS EXPRESS

Simulated holographic three-dimensional intensity shaping of evanescent-wave fields
Thomson, LC; Whyte, G; Mazilu, M; Courtial, J
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS

Guided neuronal growth using optical line traps
Carnegie, DJ; Stevenson, DJ; Mazilu, M; Gunn-Moore, F; Dholakia, K
OPTICS EXPRESS

Optical micromanipulation using supercontinuum Laguerre-Gaussian and Gaussian beams
Morris, JE; Carruthers, AE; Mazilu, M; Reece, PJ; Cizmar, T; Fischer, P; Dholakia, K
OPTICS EXPRESS

Optically mediated particle clearing using Airy wavepackets
Baumgartl, J; Mazilu, M; Dholakia, K
NATURE PHOTONICS

Optical manipulation of nanoparticles: a review
Dienerowitz, M; Mazilu, M; Dholakia, K
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021875 (2008)
Light emitting polymer blends and diffractive optical elements in high-speed direct laser writing of microstructures
Suyal, H; Waddie, AJ; Mackintosh, AR; Kuehne, AJC; Taghizadeh, MR; Pethrick, RA; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094009 (2008)

A photon-counting time-of-flight ranging technique developed for the avoidance of range ambiguity at gigahertz clock rates
Hiskett, PA; Parry, CS; McCarthy, A; Buller, GS
OPTICS EXPRESS

Integrated optical and electronic interconnect printed circuit board manufacturing
Selviah, DR; Fernandez, FA; Papakonstantinou, I; Wang, K; Bagshiahi, H; Walker, AC; et al.
CIRCUIT WORLD
Volume: 34 Issue: 2 Pages: 21-26 (2008)

Direct Laser-Writing of Polymer Structures for Optical Interconnects on Backplane Printed Circuit Boards
Walker, AC; Suyal, H; McCarthy, A
'Proceedings of the 2nd Electronics System-Integration Technology Conference', SEP 01-04, 2008, Greenwich, ENGLAND
ESTC 2008: 2ND ELECTRONICS SYSTEM-INTEGRATION TECHNOLOGY CONFERENCE, VOLS 1 AND 2, PROCEEDINGS
Pages: 977-979 (2008)

Time-of-flight sensing using time-correlated single-photon counting - art. no. 69001C
Buller, GS; McCarthy, A; Collins, RJ; Hiskett, PA; Fernandez, V; Hernandez-Marin, S; Wallace, AM
'Proceedings of the Conference on Quantum Sensing and Nanophotonic Devices IV', JAN 20-23, 2008, San Jose, CA
QUANTUM SENSING AND NANOPHOTONIC DEVICES V, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Sudharsanan, R, Jelen, C (Eds)

UV Direct-Writing of Metals on Polyimide
Ng, JHG; Desmulliez, MPY; McCarthy, A; Suyal, H; Prior, KA; Hand, DP
'Proceedings of the Symposium on Design, Test, Integration and Packaging of MEMS/MOEMS', APR 09-11, 2008, Nice, FRANCE
DTIP 2008: SYMPOSIUM ON DESIGN, TEST, INTEGRATION AND PACKAGING OF MEMS/MOEMS, Bright, VM, Bourouina, T, Courtois, B, Desmulliez, M, Karam, JM, Wang, GJ (Eds)
Pages: 360-363 (2008)
UV Direct-Writing of Metals on Polyimide Substrates
Ng, JHG; Desmulliez, MPY; Lamponi, M; Moffat, BG; Walker, AC; McCarthy, A; et al.
'Proceedings of the 2nd Electronics System-Integration Technology Conference', SEP 01-04, 2008, Greenwich, ENGLAND
ESTC 2008: 2ND ELECTRONICS SYSTEM-INTEGRATION TECHNOLOGY CONFERENCE, VOLS 1 AND 2, PROCEEDINGS
Pages: 691-694 (2008)

McCarthy, J
John McCarthy
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McComb, D
David McComb
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Scale-invariance in three-dimensional isotropic turbulence: a paradox and its resolution
McComb, D
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL
Volume: 41 Issue: 7 Article Number: 075501 (2008)

McConnell, G
Gail McConnell
Academic
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6 records

Characterisation of periodically poled materials using nonlinear microscopy
Harris, J; Norris, G; McConnell, G
OPTICS EXPRESS
Volume: 16 Issue: 8 Pages: 5667-5672 (2008)

Characterization of microscope objective lenses from 1,400 to 1,650 nm to evaluate performance for long-wavelength nonlinear microscopy applications
Keatings, SR; Zhang, W; McConnell, G
MICROSCOPY RESEARCH AND TECHNIQUE
Volume: 71 Issue: 7 Pages: 517-520 (2008)

Confocal laser scanning microscopy using a frequency doubled vertical external cavity surface emitting laser
Esposito, E; Keatings, S; Gardner, K; Harris, J; Riis, E; McConnell, G
REVIEW OF SCIENTIFIC INSTRUMENTS
Volume: 79 Issue: 8 Article Number: 083702 (2008)

Optical trapping and manipulation of live T cells with a low numerical aperture lens
Harris, J; McConnell, G
OPTICS EXPRESS

Pulse shapes for optimized two-photon laser scanning microscopy
McConnell, G
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 20 Article Number: 205502 (2008)
Laser Sources For Improved Optical Microscopy
McConnell, G
'Proceedings of the Microscopy and Microanalysis 2008', August 3 – August 7, 2008, Albuquerque, New Mexico, USA
MICROSCOPY AND MICROANALYSIS

McConville, SL
Sandra McConville
Research Student
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6 records

Demonstration of auroral radio emission mechanisms by laboratory experiment
McConville, SL; Speirs, DC; Ronald, K; Phelps, ADR; Cross, AW; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074010 (2008)

Numerical simulation of auroral cyclotron maser processes
Speirs, DC; McConville, SL; Gillespie, KM; Ronald, K; Phelps, ADR; Cross, AW; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074011 (2008)

Radio frequency resonator structure and diagnostic measurements for a laboratory simulation of Auroral Kilometric Radiation
Ronald, K; Speirs, DC; McConville, SL; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
PHYSICS OF PLASMAS
Volume: 15 Issue: 5 Article Number: 056503 (2008)

Electron beam measurements for a laboratory simulation of auroral kilometric radiation
Ronald, K; McConville, SL; Speirs, DC; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
'Proceedings of the 28th International Conference on Phenomena in Ionized Gases', JUL 15-20, 2007, Prague, CZECH REPUBLIC
PLASMA SOURCES SCIENCE & TECHNOLOGY
Volume: 17 Issue: 3 Article Number: 035011 (2008)

3D PiC code simulations for a laboratory experimental investigation of Auroral Kilometric Radiation mechanisms
Gillespie, KM; Speirs, DC; Ronald, K; McConville, SL; Phelps, ADR; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 12 Article Number: 124038 (2008)

Laboratory Reproduction of Auroral Magnetospheric Radio Wave Sources
Ronald, K; Speirs, DC; McConville, SL; Gillespie, KM; Phelps, ADR; Cross, AW; et al.
FRONTIERS IN MODERN PLASMA PHYSICS, AIP CONFERENCE PROCEEDINGS

McCulloch, N
Neil McCulloch
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McDonald, P
Peter McDonald
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McDougall, C
Craig McDougall
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University of St Andrews
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Enhanced operation of femtosecond lasers and applications in cell transfection
Brown, CTA; Stevenson, DJ; Tsampoula, X; McDougall, C; Lagatsky, AA; Sibbett, W; et al.
JOURNAL OF BIOPHOTONICS
Volume: 1 Issue: 3 Pages: 183-199 (2008)

Enhanced optical micromanipulation and transfection of cells using femtosecond lasers.
Brown, CTA; Tsampoula, X; Stevenson, D; McDougall, C; Gunn-Moore, FJ; Dholakia, K
'Proceedings of the IEEE/LEOS Summer Topical Meetings', JUL 21-23, 2008, Acapulco, MEXICO
2008 DIGEST OF THE LEOS SUMMER TOPICAL MEETINGS, Digest of the LEOS Summer Topical Meetings
Volume: Pages: 75-76 (2008)

McFarlane, J
Jamie McFarlane
Research Student
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2 records

Hole recapture limited single photon generation from a single n-type charge-tunable quantum dot
Dalgarno, PA; McFarlane, J; Brunner, D; Lambert, RW; Gerardot, BD; Warburton, RJ; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 19 Article Number: 193103 (2008)

Coulomb interactions in single charged self-assembled quantum dots: Radiative lifetime and recombination energy
Dalgarno, PA; Smith, JM; McFarlane, J; Gerardot, BD; Karrai, K; Badolato, A; Petroff, PM; Warburton, RJ
PHYSICAL REVIEW B
Volume: 77 Issue: 24 Article Number: 245311 (2008)

McGlone, H
Helen McGlone
Research Student
University of Glasgow
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McGrouther, D
Damien McGrouther
Researcher
University of Glasgow
3 records

Comment on "Three-Dimensional, Spin-Resolved Structure of Magnetic Vortex and Antivortex States in Patterned Co Films Using Scanning Ion Microscopy with Polarization Analysis"
Bode, M; Pietzsch, O; Kubetzka, A; Wulfhekel, W; McGrouther, D; McVitie, S; Chapman, JN
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 2 Article Number: 029703 (2008)

Direct observation of domain wall structures in curved permalloy wires containing an antinotch
Sandweg, CW; Wiese, N; McGrouther, D; Hermsdoerfer, SJ; Schultheiss, H; Leven, B; et al.
JOURNAL OF APPLIED PHYSICS
Volume: 103 Issue: 9 Article Number: 093906 (2008)

Growth of GaN by metal organic vapor phase epitaxy on ZnO-buffered c-sapphire substrates
Ougazzaden, A; Rogers, DJ; Teherani, FH; Moudakir, T; Gautier, S; Aggerstam, T; et al.
JOURNAL OF CRYSTAL GROWTH

McInnes, R
Rachel McInnes
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McIntyre
Craig McIntyre
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Zero records

McKay, RJ
Robert McKay
Research Student
University of Glasgow
1 record

Test-particle simulations of collisional impurity transport in rotating spherical tokamak plasmas
McKay, RJ; McClements, KG; Thyagaraja, A; Fletcher, L
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 6 Article Number: 065017 (2008)
McKee, D
David McKee
Researcher
University of Strathclyde in Glasgow
2 records

Measuring Algal Fluorescence From Space In Optically Complex Coastal Waters
McKee, D; Cunningham, A
SEA TECHNOLOGY

Scattering error corrections for in situ absorption and attenuation measurements
McKee, D; Piskozub, J; Brown, I
OPTICS EXPRESS
Volume: 16 Issue: 24 Pages: 19480-19492 (2008)

Current Research
I am interested in measuring and modelling the optical properties of coastal and oceanic seawater for
climate modelling and ocean colour remote sensing applications. Current interests include determining
measurement uncertainties for inherent optical property measurements and use of radiative transfer
simulations to determine improved ocean colour interpretation algorithms. My work is supported by a
NERC Advanced Fellowship that builds on a previous NERC Postdoctoral Fellowship award.

McKendry, J
Jonathan McKendry
Research Student
University of Strathclyde in Glasgow
2 records

CMOS driven micro-pixel LEDs integrated with single photon avalanche diodes for time
resolved fluorescence measurements
Rae, BR; Griffin, C; McKendry, J; Girkin, JM; Zhang, HX; Gu, E; Renshaw, D; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094011 (2008)

Individually-addressable flip-chip AlInGaN micropixelated light emitting diode arrays with
high continuous and nanosecond output power
Zhang, HX; Massoubre, D; McKendry, J; Gong, Z; Guilhabert, B; Griffin, C; Gu, E; et al.
OPTICS EXPRESS

McKenna, P
Paul McKenna
Researcher
University of Strathclyde in Glasgow
8 records

Active steering of laser-accelerated ion beams
Lundh, O; Glinec, Y; Homann, C; Lindau, F; Persson, A; Wahlstrom, CG; Carroll, DC; McKenna, P
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 1 Article Number: 011504 (2008)

Nuclear activation as a high dynamic range diagnostic of laser-plasma interactions
Clarke, RJ; Simpson, PT; Kar, S; Green, JS; Bellei, C; Carroll, DC; Dromey, B; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-
ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
Dynamic control of laser-produced proton beams
Kar, S; Markey, K; Simpson, PT; Bellei, C; Green, JS; Nagel, SR; Kneip, S; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 10 Article Number: 105004 (2008)

Study of photo-proton reactions driven by bremsstrahlung radiation of high-intensity laser generated electrons
Spohr, KM; Shaw, M; Galster, W; Ledingham, KWD; Robson, L; Yang, JM; McKenna, P; et al.
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 043037 (2008)

Effects of front surface plasma expansion on proton acceleration in ultraintense laser irradiation of foil targets
McKenna, P; Carroll, DC; Lundh, O; Nurnberg, F; Markey, K; Bandyopadhyay, S; et al.
LASER AND PARTICLE BEAMS

Effects of laser prepulse on proton generation: active manipulation of the distribution of laser accelerated proton beams
Batani, D; Redaelli, R; Dezulian, R; Lundh, O; Lindau, F; Persson, A; Osvay, K; et al.
LASER DRIVEN RELATIVISTIC PLASMAS APPLIED FOR SCIENCE, INDUSTRY, AND MEDICINE, AIP CONFERENCE PROCEEDINGS

Laser driven MeV proton beam focussing by auto-charged electrostatic lens configuration
Kar, S; Markey, K; Simpson, PT; Bellei, C; Green, JS; Nagel, SR; Kneip, S; et al.
LASER DRIVEN RELATIVISTIC PLASMAS APPLIED FOR SCIENCE, INDUSTRY, AND MEDICINE, AIP CONFERENCE PROCEEDINGS

Laser-driven nuclear physics
McKenna, P; Ledingham, KWD; Jaly, G
KARLSRUHER NUKLIDKARTE, Pfennig, G; Normand, C; Magill, J; Fanghanel, Th (Eds)
Pages: 78-86 (2008)

Current Research
Experimental investigations of high energy density plasmas produced by intense laser-matter interactions. Particle acceleration driven by strong electromagnetic fields generated in non-linear relativistic plasma is investigated using large national and international laser systems. Nuclear processes driven by particles and radiation produced in intense laser-matter interactions are studied. Activities in laser-based fusion energy science.

McKnight, L
Loyd McKnight
Research Student
University of Strathclyde in Glasgow
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Mclean, C
Colin Mclean
Research Student
The University of Edinburgh
1 record
The LHCb Detector at the LHC
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08005 (2008)

McLean, D
David McLean
Research Student
University of St Andrews
Zero records

McLure, R
Ross McLure
Researcher
The University of Edinburgh
5 records

On the evolution of clustering of 24-μm m-selected galaxies
Magliocchetti, M; Cirasuolo, M; McLure, RJ; Dunlop, JS; Almaini, O; Foucaud, S; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 383 Issue: 3 Pages: 1131-1142 (2008)

Exploring the infrared/radio correlation at high redshift
Ibar, E; Cirasuolo, M; Ivison, R; Best, P; Smail, I; Biggs, A; Simpson, C; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

A young, dusty, compact radio source within a Ly alpha halo
Barrio, FE; Jarvis, MJ; Rawlings, S; Bauer, A; Croft, S; Hill, GJ; Manchado, A; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The clustering and abundance of star-forming and passive galaxies at z similar to 2
Hartley, WG; Lane, KP; Almaini, O; Cirasuolo, M; Foucaud, S; Simpson, C; Maddox, S; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The Clustering of Star-Forming and Passive Galaxies at z similar to 2
Almaini, O; Hartley, W; Foucaud, S; Lane, K; Conselice, CJ; McLure, RJ; Cirasuolo, M; et al.
'Proceedings of the International Conference on Panoramic Views of Galaxy Formation and Evolution',
DEC 11-16, 2007, Hayama, JAPAN
PANORAMIC VIEWS OF GALAXY FORMATION AND EVOLUTION, PROCEEDINGS,
ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Kodama, T, Yamada, T, Aoki, K (Eds)
Volume: 399 Pages: 90-93 (2008)

McMahon, M
Malcolm McMahon
Academic
The University of Edinburgh
2 records

Structural diversity of sodium
Gregoryanz, E; Lundegaard, LF; McMahon, MI; Guillaume, C; Nelmes, RJ; Mezouar, M
SCIENCE
Origin of incommensurate modulations in the high-pressure phosphorus IV phase
Marques, M; Ackland, GJ; Lundegaard, LF; Falconi, S; Hejny, C; McMahon, MI; et al.
PHYSICAL REVIEW B
Volume: 78 Issue: 5 Article Number: 054120 (2008)

McNab, D
Douglas McNab
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Zero records

McNeil, BWJ
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5 records

Mode locking in a free-electron laser amplifier
Thompson, NR; McNeil, BWJ
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 20 Article Number: 203901 (2008)

Free-electron lasers - A down-sized design
McNeil, B
NATURE PHOTONICS

PULSE - A High-Repetition-Rate Linac Driver for X-ray FELs
McNeil, BWJ; Williams, PH; Militsyn, BL; Poole, MW; Thompson, NR; Owen, HL
'Proceedings of the Proceedings of EPAC08', 23 to 27 June 2008, Genoa, Italy
PROCEEDINGS OF EPAC08, GENOA, ITALY - 02 SYNCHROTRON LIGHT SOURCES AND FELS - A06 FREE ELECTRON LASERS

Noise and coherence properties of HHG for FEL seeding
Sheehy, B; Clarke, JA; Thompson, NR; McNeil, BWJ; Gordon, A
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Short wavelength regenerative amplifier free electron lasers
Dunning, DJ; McNeil, BWJ; Thompson, NR
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
Current Research
Much of Brian McNeil’s work is based upon collective interactions that occur between charged particle beams and electromagnetic fields. Such interactions form the basis of important generators of coherent electromagnetic radiation, such as the Free-Electron Laser. Similar interactions with classical dielectric particles and cold atoms also occur. Brian is closely involved with the STFC’s New Light Source project and collaboration with ASTeC. In addition to work on various aspects of the NLS design, he is investigating new ultra-fast interactions for the next generation of attosecond FELs. He presents postgraduate lectures on FELs at both SUPA and the Cockcroft Institute.

McNeile, C
Craig McNeile
Researcher
University of Glasgow
3 records

Methods for pseudoscalar flavor-singlet mesons with staggered fermions
Gregory, EB; Irving, AC; Richards, CM; McNeile, C
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 065019 (2008)

High-precision charm-quark mass and QCD coupling from current-current correlators in lattice and continuum QCD
Allison, I; Dalgic, E; Davies, CTH; Follana, E; Horgan, RR; Hornbostel, K; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 054513 (2008)

Update: Accurate determinations of alpha(s) from realistic lattice QCD
Davies, CTH; Hornbostel, K; Kendall, ID; Lepage, GP; McNeile, C; Shigemitsu, J; Trottier, H
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 114507 (2008)

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Fiona McNeillie
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McNicoll, E
Eilidh McNicoll
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University of Glasgow
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Upgrade of the Glasgow photon tagging spectrometer for Mainz 19 MAMI-C
McGeorge, JC; Kellie, JD; Annand, JRM; Ahrens, J; Anthony, I; Clarkson, A; et al.
EUROPEAN PHYSICAL JOURNAL A

McQueenie, R
Ross McQueenie
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McRobbie, A
Andrew McRobbie
Research Student
University of St Andrews
Zero records

McStravick, M
Michael McStravick
Research Student
University of Strathclyde in Glasgow
1 record

*Helically corrugated waveguides for compression of microwave pulses*
McStravick, M; Samsonov, SV; Cross, AW; Denisov, GG; He, W; MacInnes, P; Phelps, ADR; et al.
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 181-182 (2008)

McVitie, S
Stephen McVitie
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5 records

*Comment on "Three-Dimensional, Spin-Resolved Structure of Magnetic Vortex and Antivortex States in Patterned Co Films Using Scanning Ion Microscopy with Polarization Analysis"*
Bode, M; Pietzsch, O; Kubetzka, A; Wulfhekel, W; McGrouther, D; McVitie, S; Chapman, JN
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 2 Article Number: 029703 (2008)

*Direct observation of domain wall structures in curved permalloy wires containing an antinotch*
Sandweg, CW; Wiese, N; McGrouther, D; Hermsdoerfer, SJ; Schultheiss, H; Leven, B; et al.
JOURNAL OF APPLIED PHYSICS
Volume: 103 Issue: 9 Article Number: 093906 (2008)

*Magnetization processes in single-layer and laminated CoFe films patterned into multiscale elements with write-head-like geometries*
Kong, X; McVitie, S; Chapman, JN; Weaver, JMR; O'Donnell, DO; Johnston, AB
JOURNAL OF APPLIED PHYSICS
Volume: 104 Issue: 1 Article Number: 013925 (2008)

*Direct observation of changes to domain wall structures in magnetic nanowires of varying width*
O'Shea, KJ; McVitie, S; Chapman, JN; Weaver, JMR
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 20 Article Number: 202505 (2008)

*Very high resolution etching of magnetic nanostructures in organic gases*
Kong, X; Krasa, D; Zhou, HP; Williams, W; McVitie, S; Weaver, JMR; Wilkinson, CDW
MICROELECTRONIC ENGINEERING, ELSEVIER SCIENCE BV
Current Research
My research interest is in the area of magnetic thin films investigated by transmission electron microscopy (TEM). Currently of great interest are magnetic nanowires and systems whose behaviour has been modified by ion beam irradiation. These material systems are of great potential in spintronic devices. The magnetic structure is probed using the Lorentz imaging modes of TEM on a scale of less than 10 nanometres. My interests also include development of these techniques and the extraction of quantitative information on this length scale.

Meevasana, W
Worawat Meevasana
Researcher
University of St Andrews
2 records

Extracting the spectral function of the cuprates by a full two-dimensional analysis: Angle-resolved photoemission spectra of Bi2Sr2CuO6
Meevasana, W; Baumberger, F; Tanaka, K; Schmitt, F; Dunkel, WR; Lu, DH; Mo, SK; Eisaki, H; Shen, ZX
PHYSICAL REVIEW B
Volume: 77 Issue: 10 Article Number: 104506 (2008)

Fermi surface and van hove singularities in the itinerant metamagnet Sr3Ru2O11
Tamai, A; Allan, MP; Mercure, JF; Meevasana, W; Dunkel, R; Lu, DH; Perry, RS; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 2 Article Number: 026407 (2008)

Meiksin, A
Avery Meiksin
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4 records

The Sixth Data Release of the Sloan Digital Sky Survey
Adelman-McCarthy, JK; Agueros, MA; Allam, SS; Prieto, CA; Anderson, KSJ; Anderson, SF; et al.
ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES

Average properties of a large sample of z(abs) similar to z(em) associated MgII absorption line systems
Berk, DV; Khare, P; York, DG; Richards, GT; Lundgren, B; Alsayyad, Y; Kulkarni, VP; et al.
ASTROPHYSICAL JOURNAL

Luminosity function constraints on the evolution of massive red galaxies since z similar to 0.9
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ASTROPHYSICAL JOURNAL
Melone, JJ
Joseph Melone
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6 records

Cross sections and beam asymmetries for $(e\rightarrow p) \rightarrow e^+ \pi^+$ in the nucleon resonance region for $1.7 < Q^2 < 4.5$ GeV$^2$
Park, K; Burkert, VD; Kim, W; Aznauryan, IG; Minehart, R; Smith, LC; Joo, K; et al.
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Volume: 78 Issue: 2 Article Number: 025210 (2008)

The LHCb Detector at the LHC
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.
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Volume: 3 Article Number: S08005 (2008)

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Aznauryan, IG; Burkert, VD; Kim, W; Park, K; Adams, G; Amaryan, MJ; Ambrozewicz, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045209 (2008)

Memari, Y
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Mendez, E
Enrique Mendez
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Menzies, D
David Menzies
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2 records
Weak measurements with entangled probes
Menzies, D; Korolkova, N
PHYSICAL REVIEW A
Volume: 77 Issue: 6 Article Number: 062105 (2008)

Do occupational health assessments match guidelines for low back pain?
Walsh, L; Menzies, D; Chamberlain, K; Agius, R; Gittins, M
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Mercure, JF
Jean-Francois Mercure
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2 records

Effect of electron doping the metamagnet Sr3-yLayRu2O10
Farrell, J; Perry, RS; Rost, A; Mercure, JF; Kikugawa, N; Grigera, SA; Mackenzie, AP
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Volume: 78 Issue: 18 Article Number: 180409 (2008)

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Tamai, A; Allan, MP; Mercure, JF; Meevasana, W; Dunkel, R; Lu, DH; Perry, RS; et al.
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Merkel, M
Michael Merkl
Research Student
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1 record

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Merkel, M; Zimmer, FE; Juzeliunas, G; Oehberg, P
EPL
Volume: 83 Issue: 5 Article Number: 054002 (2008)

Metzger, NK
Klaus Metzger
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2 records

Femtosecond pulse generation around 1500nm using a GaInNAsSb SESAM
Metzger, NK; Leburn, CG; Lagatsky, AA; Brown, CTA; Calvez, S; Burns, D; Sun, HD; et al.
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Middleton, RJC
Robert Middleton
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1 record

Predicting Range Point Response from Chirp Non-linearity
Middleton, RJC; Robertson, DA
'Proceedings of the International Conference on Radar', SEP 02-05, 2008, Adelaide, AUSTRALIA
2008 INTERNATIONAL CONFERENCE ON RADAR, VOLS 1 AND 2

Miles, CS
Caroline Miles
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2 records

Importance of the domain-domain interface to the catalytic action of the NO synthase reductase domain
Welland, A; Garnaud, PE; Kitamura, M; Miles, CS; Daff, S
BIOCHEMISTRY

Rhodobacter sphaeroides haem protein: a novel cytochrome with nitric oxide dioxygenase activity
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Millar, P
Patricia Millar
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1 record

Synthetic diamond for intracavity thermal management in compact solid-state lasers
Millar, P; Birch, RB; Kemp, AJ; Burns, D
IEEE JOURNAL OF QUANTUM ELECTRONICS

Miller D
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2 records

Theoretical upper bound on the mass of the LSP in the MNSSM
Hesselbach, S; Miller, DJ; Moortgat-Pick, G; Nevzorov, R; Trusov, A
PHYSICS LETTERS B
Leptogenesis in the exceptional supersymmetric standard model: flavour dependent lepton asymmetries
King, SF; Luo, R; Miller, DJ; Nevzorov, R
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 12 Article Number: 042 (2008)

Miller, A
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2 records

Time-resolved carrier dynamics and the quantum confined Stark effect in a bilayer quantum dot waveguide at 1340nm
Malins, DB; Gomez-Iglesias, A; Miller, A; Spencer, P; Clarke, E; Murray, R; Flatte, ME; Pryor, CE
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Ultrafast Electroabsorption Dynamics in a GaInNAs Quantum Well Waveguide at 1.3 mu m
Malins, DB; Gomez-Iglesias, A; Miller, A; Guina, M
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9

Current Research
Alan Miller is Professor of Physics and Vice Principal for Research at the University of St Andrews and from 1997 to 2003 was Head of School of Physics and Astronomy. A graduate of The University of Edinburgh (BSc Physics, 1971) and University of Bath (PhD, 1975), his career has included posts at Heriot-Watt University (1974-1979), the University of Texas (1979-1981), RSRE Malvern (1981-1989) and CREOL, University of Central Florida (1989-2003). He is a Fellow of the Institute of Physics (1989), Royal Society of Edinburgh (1996), Institute of Electrical and Electronics Engineers (1998) and Optical Society of America (2007). He is currently a member of SFC Research and Knowledge Transfer Committee.

Miller, G
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John Miller
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5 records

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
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Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
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First joint search for gravitational-wave bursts in LIGO and GEO 600 data
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CLASSICAL AND QUANTUM GRAVITY

Thermal distortions of non-Gaussian beams in Fabry-Perot cavities
Miller, J; Willems, P; Yamamoto, H; Agresti, J; DeSalvo, R
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

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**Moraes, AM**  
Arthur Moraes  
Researcher  
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*The ATLAS Experiment at the CERN Large Hadron Collider*  
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; *et al.*  
JOURNAL OF INSTRUMENTATION  
Volume: 3 Article Number: S08003 (2008)

**Current Research**  
The Large Hadron Collider (LHC) is scheduled to start colliding high-energy proton beams in the Autumn of 2009, heralding a new era in high-energy physics. Although many studies on the Higgs and SUSY sectors have been conducted not much has been done in the understanding of the complex structure of the underlying event (UE) that will be produced alongside these processes at the LHC. The UE consists of all event activity except the high-pt jets or high-Q2 processes of interest. In other words, UE studies will reveal the results of secondary partonic interactions, beam-remnant breakup and correlations between these and the high-Q2 process of interest. This underlying structure of hadronic interactions has not been fully understood yet and it is not clear how it should be modeled and precisely how it will impact on LHC measurements. Measuring the UE will be crucial to understand the challenging QCD environment present in LHC collisions, hence the relevance of these studies at ATLAS. The study and measurement of the underlying event at ATLAS and its impact on important physics channels, extending from the Standard Model to new physics scenarios, especially in the Higgs sector, is the subject of my research.

**Morozov, AN**  
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2 records

*Coherent structures in dissipative particle dynamics simulations of the transition to turbulence in compressible shear flows*  
van de Meent, JW; Morozov, A; Somfai, E; Sultan, E; van Saarloos, W  
PHYSICAL REVIEW E  
Volume: 78 Issue: 1 Article Number: 015701 (2008)

*Scaling of singular structures in extensional flow of dilute polymer solutions*  
Becherer, P; Morozov, AN; van Saarloos, W  
JOURNAL OF NON-NEWTONIAN FLUID MECHANICS  

**Morozov, G**  
Gregory Morozov  
Researcher  
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2 records
**Directional emission from an optical microdisk resonator with a point scatterer**
Dettmann, CP; Morozov, GV; Sieber, M; Waalkens, H
EPL
Volume: 82 Issue: 3 Article Number: 034002 (2008)

**TM and TE directional modes of an optical microdisk resonator with a point scatterer**
Dettmann, CP; Morozov, GV; Sieber, M; Waalkens, H
'Proceedings of the 10th International Conference on Transparent Optical Networks', JUN 22-26, 2008, Athens, GREECE
ICTON 2008: PROCEEDINGS OF 2008 10TH ANNIVERSARY INTERNATIONAL CONFERENCE ON TRANSPARENT OPTICAL NETWORKS, VOL 4, Marciniak, M (Eds)
Pages: 65-68 (2008)

**Morris, J**
Jill Morris
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1 record

*Optical micromanipulation using supercontinuum Laguerre-Gaussian and Gaussian beams*
Morris, JE; Carruthers, AE; Mazilu, M; Reece, PJ; Cizmar, T; Fischer, P; Dholakia, K
OPTICS EXPRESS

**Current Research**
My research is based in the area of optical micromanipulation and novel beam shapes using a supercontinuum source.

**Mortier, A**
Angela Mortier
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3 records

*The SCUBA HALF DEGREE EXTRAGALACTIC SURVEY - VI. 350-μM MAPPING OF SUBMILLIMETRE GALAXIES*
Coppin, K; Halpern, M; Scott, D; Borys, C; Dunlop, J; Dunne, L; Ivison, R; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

*The SCUBA Half Degree Extragalactic Survey (SHADES) - IX. The environment, mass and redshift dependence of star formation*
Serjeant, S; Dye, S; Mortier, A; Peacock, J; Egami, E; Cirasuolo, M; Rieke, G; et al.
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*The SCUBA Half-Degree Extragalactic Survey (SHADES) - VIII. The nature of faint submillimetre galaxies in SHADES, SWIRE and SXDF surveys*
Clements, DL; Vaccari, M; Babbedge, T; Oliver, S; Rowan-Robinson, M; Davoodi, P; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

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Growth and Characterization of ZnMgS and ZnMgS/ZnSe Quantum Wells grown on GaAs (100) by Using MBE
Bradford, C; Moug, RT; Curran, A; Thuau, D; Warburton, RJ; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

MBE Growth and Characterization of MgS-Rich Zinc-Blende ZnxMg1-xS1-ySey Alloys
Moug, RT; Bradford, C; Thuau, D; Curran, A; Warburton, RJ; Prior, KA
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Surface Reconstructions of Zincblende MgS (100) Observed by Using RHEED
Moug, RT; Bradford, C; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY
Volume: 53 Issue: 5 Pages: 2996-2999 (2008)

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Franz Muheim
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Exclusive branching-fraction measurements of semileptonic tau decays into three charged hadrons, into phi pi(-)nu(tau), and into phi K-nu(tau)
Aubert, B; Bona, M; Boutigny, D; Coudere, F; Karyotakis, Y; Lees, JP; Poireau, V; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 1 Article Number: 011801 (2008)

Measurement of the CP-violating asymmetries in B-0 -> K-s(0)pi(0) and of the branching fraction B-0 -> K-0 pi(0)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 012003 (2008)

Observation of the semileptonic decays B -> D-*tau(-)(nu)over-bar(tau) and evidence for B -> D tau(-)(nu)over-bar(tau)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 2 Article Number: 021801 (2008)

Search for B+->tau(+)nu decays with hadronic B tags
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 011107 (2008)

Search for the decays B-0 -> e(+)+e(-)gamma and B-0 -> mu(+)+mu(-)gamma
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 011104 (2008)

Search for the rare charmless hadronic decay B+-> a(0)(+)+pi(0)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 011101 (2008)

Study of excited charm-strange baryons with evidence for new baryons Xi(c)(3055)(+) and Xi(c)(3123)(+)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 012002 (2008)

Study of resonances in exclusive B decays to (D)over-bar(*)D(0)(*)K
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 011102 (2008)
Determination of the form factors for the decay $B^0 \rightarrow D^{*-}l^{(*)}\nu l$ and of the CKM matrix element $|V_{cb}|$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 3 Article Number: 032002 (2008)

Measurement of the absolute branching fraction of $D^{0} \rightarrow K^{+}\pi^{(-)}$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 5 Article Number: 051802 (2008)

Observation of $B^{0} \rightarrow K^{*-}\overline{K^{*0}}(0)$ and search for $B^{0} \rightarrow K^{*-}\overline{K^{*0}}(0)$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 8 Article Number: 081801 (2008)

Search for CP violation in the decays $D^{0} \rightarrow K^{-}K^{+}$ and $D^{0} \rightarrow \pi^{-}\pi^{+}$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 6 Article Number: 061803 (2008)

Search for decays of $B^{0}$ mesons into $e^{+}e^{-}$, $\mu^{+}\mu^{-}$ and $e^{+/-}\mu^{+/-}$ final states
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 3 Article Number: 032007 (2008)

Search for lepton flavor violating decays $\tau^{(+/-)} \rightarrow l^{(+/-)}\omega$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 7 Article Number: 071802 (2008)

Study of $(B^{+}) \rightarrow \Xi^{c}(c)\Lambda^{c}(c)$ and $(B^{0}) \rightarrow \Lambda^{c}(c)\Xi^{c}(c)$ decays at BABAR
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 3 Article Number: 031101 (2008)

Measurement of the $B \rightarrow X^{(*)}\gamma$ branching ratio and photon energy spectrum using the recoil method
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 5 Article Number: 051103 (2008)

Search for CPT and Lorentz violation in $B^{0}-(B^{0})^{*}$ oscillations with dilepton events
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 13 Article Number: 131802 (2008)

Time-dependent Dalitz plot analysis of $B^{0} \rightarrow (DK^{0})(K^{+})^{(*)} \rightarrow K^{-}\pi^{+}l^{(*)}$ decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 7 Article Number: 071102 (2008)

Measurements of $e^{+}e^{-} \rightarrow K^{+}K^{-}\pi^{0}$, $K^{+}K^{-}\pi^{0}$, and $(K\bar{K}^{(*)})^{(*)} \rightarrow K^{0}\pi^{(*)}l^{(*)}$ cross sections using initial state radiation events
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 9 Article Number: 092002 (2008)
Measurements of partial branching fractions for $(B\bar{B} \rightarrow X(u)l(\nu)\bar{\nu})$ and determination of vertical bar $V_{ub}$ vertical bar
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, J-P; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 17 Article Number: 171802 (2008)

Observation of tree-level $B$ decays with $s(s')\bar{B}$ production from gluon radiation
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, J-P; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 17 Article Number: 171803 (2008)

Exploiting the width difference in $B-s \rightarrow \phi$ gamma
Muheim, F; Xie, Y; Zwicky, R
PHYSICS LETTERS B

Measurement of the $\tau^{-} \rightarrow \pi^{-} \pi^{+} \pi^{-}$ branching fraction and a search for a second-class current in the $\tau^{-} \rightarrow \eta^{'}(958)\pi^{-} \nu(\tau)$ decay
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, J-P; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 11 Article Number: 112002 (2008)

Observation of $Y(3940) \rightarrow J/\psi \omega$ in $B \rightarrow J/\psi K$ at BABAR
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, J-P; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

Study of $B$ meson decays with excited $\eta$ and $\eta^{'}$ mesons
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, J-P; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

The LHCB Detector at the LHC
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08005 (2008)

$B$, $D$ and $K$ decays
Buchalla, G; Komatsubara, TK; Muheim, F; Silvestrini, L; Artuso, M; Asner, DM; et al.
EUROPEAN PHYSICAL JOURNAL C

Dalitz plot analysis of the decay $B-0((B)\bar{B}(0)) \rightarrow K^{-}/+\pi^{-}/+\pi^{0}$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J-P; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 052005 (2008)

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Cosmology with weak lensing surveys
Munshi, D; Valageas, P; van Waerbeke, L; Heavens, A
PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS
Murdoch, D
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Murphy, ASJ
Alex Murphy
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Track reconstruction and performance of DRIFT directional dark matter detectors using alpha particles
Burgos, S; Forbes, J; Ghag, C; Gold, M; Kudryavtsev, VA; Lawson, TB; Loomba, D; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Evidence for core excitation in single-particle states of Na-19
Pellegriti, MG; Achouri, NL; Angulo, C; Anglique, JC
PHYSICS LETTERS B

The ZEPLIN II dark matter detector: Data acquisition system and data reduction
Alner, GJ; Araujo, HM; Bewick, A; Bungau, C; Camanzi, B; Carson, MJ; Chagani, H; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Measurements of neutrons produced by high-energy muons at the Boulby Underground Laboratory
Araujo, HM; Blockley, J; Bungau, C; Carson, MJ; Chagani, H; Daw, E; Edwards, B; et al.
ASTROPARTICLE PHYSICS

Measurement of single electron emission in two-phase xenon
Edwards, B; Araujo, HM; Chepel, V; Cline, D; Durkin, T; Gao, J; Ghag, C; Korolkova, EV; et al.
ASTROPARTICLE PHYSICS
Volume: 30 Issue: 2 Pages: 54-57 (2008)

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Nelson, J
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6 records

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McVitie, S; Ngo, DT


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**Norberg, P**

Peder Norberg
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Norris, G
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Serrels, KA; Ramsay, E; Dalgarno, PA; Gerardot, BD; O'Connor, JA; Hadfield, RH; Warburton, RJ; Reid, DT
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O'Donnell, D
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2 records

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O'Donnell, KP
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O'Holleran, K
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O'Mullane, MG
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5 records

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**O'Shea, V**  
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*Engineering for the ATLAS SemiConductor Tracker (SCT) end-cap*  
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**Current Research**  
Research interests are focussed on development of novel techniques for radiation detection and implementation of detection systems using new technologies. We are currently working on novel interconnection techniques, and the use of CMOS sensors and photon counting sensors and electronics to implement large area sensor panels. In addition, we are developing detector technologies for use in very harsh radiation environments for use in the next generation of Particle Physics experiments where currently available solution will not survive long enough to take data. These technologies will have broader applications in medical imaging, security applications and environmental monitoring as they are developed.

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JOURNAL OF OPTICS A-PURE AND APPLIED OPTICS, IOP PUBLISHING LTD
Volume: 10 Issue: 4 Article Number: 044009 (2008)

Optically driven pumps and flow sensors for microfluidic systems
Mushfique, H; Leach, J; Di Leonardo, R; Padgett, MJ; Cooper, JM
'Proceedings of the Colloquium on Micro- and Nano-Scale Flows - Advancing the Engineering Science and Design', DEC 07-08, 2006, Glasgow, SCOTLAND
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, PROFESSIONAL ENGINEERING PUBLISHING LTD
Volume: 222 Issue: 5 Pages: 829-837 (2008)

Current Research
In 2008 Padgett was awarded the Institute of Physics Optics and Photonics Division Prize for a "distinguished record of achievement in research that spans fundamental aspects of optical angular momentum and applied optical sensors". Padgett has international reputation for his contribution to the fundamental understanding of light's momentum, including conversion of optical tweezers to optical spanners, observation of a rotational form of the Doppler shift and an angular form of Heisenberg's uncertainty principle. Padgett has published over 190 papers that have amassed > 4500 citations in the world's leading scientific journals. He has made a number of TV and radio appearances and numerous public lectures -- promoting science and technology to the widest possible audience.

Padol, AM
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Pajak, M
Malgorzata Pajak
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Palansuriya, C
Charaka Palansuriya
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Pandey, A
Ajay Pandey
Researcher
University of St Andrews
Zero records

Panek, D
Dalibor Panek
Research Student
University of Strathclyde in Glasgow
Zero records
**Panter, B**
Ben Panter  
Researcher  
The University of Edinburgh  
4 records  

*Evidence for progressive loss of star-forming gas in SDSS galaxies*  
Calura, F; Jimenez, R; Panter, B; Matteucci, F; Heavens, AF  
ASTROPHYSICAL JOURNAL  

*The role of spin in the formation and evolution of galaxies*  
Berta, ZK; Jimenez, R; Heavens, AF; Panter, B  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY  

*The cosmic evolution of metallicity from the SDSS fossil record*  
Panter, B; Jimenez, R; Heavens, AF; Charlot, S  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY  
Volume: 391 Issue: 3 Pages: 1117-1126 (2008)  

*Physical Classification of Galaxies with MOPED/VESPA*  
Jimenez, R; Heavens, AF; Panter, B; Tojeiro, R  
Proceedings of the International Conference on Classification and Discovery in Large Astronomical Surveys, OCT 14-17, 2008, Ringberg Castle, GERMANY  
CLASSIFICATION AND DISCOVERY IN LARGE ASTRONOMICAL SURVEYS, AIP CONFERENCE PROCEEDINGS, BailerJones, CAL (Eds)  
Volume: 1082 Pages: 92-98 (2008)  

**Current Research**

Although continuing to work in Astronomy my focus has moved to knowledge transfer, taking technology developed as part of my research into an application in medical physics, motion correction for MRI. This work has been very successful and we plan to spinout Blackford Analysis, the first company from the Institute for Astronomy in Edinburgh  

**Papoff, F**
Francesco Papoff  
Academic  
University of Strathclyde in Glasgow  
2 records  

*State dependent pseudoresonances and excess noise*  
Papoff, F; D'Alessandro, G; Oppo, GL  
PHYSICAL REVIEW LETTERS  
Volume: 100 Issue: 12 Article Number: 123905 (2008)  

*Spatial Distribution of the Total Field of a Spherical Scatterer*  
Papoff, F; Kao, XF  
OPTO-ELECTRONIC ENGINEERING 35  
Pages: 137-144 (2008)  

**Parker, M**
Michelle Parker  
Research Student  
University of the West of Scotland  
Zero records
Measurement of the tau lepton polarisation at LEP2
Abdallah, J; Abreu, P; Adam, W; Adzic, P; Albrecht, T; Alemany-Fernandez, R; et al.
PHYSICS LETTERS B

Higgs boson searches in CP-conserving and CP-violating MSSM scenarios with the DELPHI detector
Abdallah, J; Abreu, P; Adam, W; Adzic, P; Albrecht, T; Alemany-Fernandez, R; et al.
EUROPEAN PHYSICAL JOURNAL C

Study of W-boson polarisations and triple gauge boson couplings in the reaction e(+)e(-)-> W+W- at LEP 2
Abdallah, J; Abreu, P; Adam, W; Adzic, P; Albrecht, T; Alemany-Fernandez, R; et al.
EUROPEAN PHYSICAL JOURNAL C
Volume: 54 Issue: 3 Pages: 345-364 (2008)

Measurement of the mass and width of the W boson in e(+) e(-) collisions at root s=161-209 GeV
Abdallah, J; Abreu, P; Adam, W; Adzic, P; Albrecht, T; Alemany-Fernandez, R; et al.
EUROPEAN PHYSICAL JOURNAL C

Study of b-quark mass effects in multijet topologies with the DELPHI detector at LEP
Abdallah, J; Abreu, P; Adam, W; Adzic, P; Albrecht, T; Alemany-Fernandez, R; et al.
EUROPEAN PHYSICAL JOURNAL C

Simulations of radiation-damaged 3D detectors for the Super-LHC
Pennicard, D; Pellegrini, G; Fleta, C; Bates, R; O'Shea, V; Parkes, C; Tartoni, N
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
Volume: 592 Issue: 01-Feb Pages: 16-25 (2008)

The LHCb Detector at the LHC
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08005 (2008)

Observation of the muon inner bremsstrahlung at LEP1
Abdallah, J; Abreu, P; Adam, W; Adzic, P; Albrecht, T; Alemany-Fernandez, R; et al.
EUROPEAN PHYSICAL JOURNAL C

Alignment procedure of the LHCb vertex detector
Viret, S; Parkes, C; Gersabeck, M
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
Performance of the LHCb vertex detector alignment algorithm determined with beam test data
Gersabeck, M; Viret, S; Parkes, C; Akiba, K; Artuso, M; Borel, J; Bowcock, TJV; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Di-jet production in gamma gamma collisions at LEP2
Abdallah, J; Abreu, P; Adam, W; Adzic, P; Albrecht, T; Alemany-Fernandez, R; et al.
EUROPEAN PHYSICAL JOURNAL C

Parkinson, H
Hannah Parkinson
Research Student
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2 records

Generating dark matter halo merger trees
Parkinson, H; Cole, S; Helly, J
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The statistical properties of Lambda cold dark matter halo formation
Cole, S; Helly, J; Frenk, CS; Parkinson, H
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 383 Issue: 2 Pages: 546-556 (2008)

Parley, N
Neil Parley
Researcher
University of St Andrews
4 records

SuperWASP-N extrasolar planet candidates from fields 06(h) < RA < 16(h)
Kane, SR; Clarkson, WI; West, RG; Wilson, DM; Christian, DJ; Cameron, AC; Enoch, B; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

WASP-4b: A 12th magnitude transiting hot Jupiter in the southern hemisphere
Wilson, DM; Gillon, M; Hellier, C; Maxted, PFL; Pepe, F; Queloz, D; Anderson, DR; et al.
ASTROPHYSICAL JOURNAL LETTERS

WASP-3b: a strongly irradiated transiting gas-giant planet
Pollacco, D; Skillen, I; Cameron, AC; Loeillet, B; Stempels, HC; Bouchy, F; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 385 Issue: 3 Pages: 1576-1584 (2008)

WASP-5b: a dense, very hot Jupiter transiting a 12th-mag Southern-hemisphere star
Anderson, DR; Gillon, M; Hellier, C; Maxted, PFL; Pepe, F; Queloz, D; Wilson, DM; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 387 Issue: 1 Pages: L4-L7 (2008)
Parry, J
Jon Parry
Researcher
Heriot-Watt University
1 record

Nanosecond-laser postprocessing of millisecond-laser-machined zirconia (Y-TZP) surfaces
Parry, JP; Shephard, JD; Dear, FC; Jones, N; Weston, N; Hand, DP
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY
Volume: 5 Issue: 3 Pages: 249-257 (2008)

Paterson, C
Craig Paterson
Research Student
University of Glasgow
10 records

Cross sections and beam asymmetries for (e)over-right-arrowp -> en pi(+) in the nucleon resonance region for 1.7 <= Q(2)<= 4.5 GeV2
Park, K; Burkert, VD; Kim, W; Aznauryan, IG; Minehart, R; Smith, LC; Joo, K; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 1 Article Number: 015208 (2008)

Bayesian analysis of pentaquark signals from CLAS data
Ireland, DG; McKinnon, B; Protopopescu, D; Ambrozewicz, P; Anghinolfi, M; Asryan, G; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 5 Article Number: 052001 (2008)

Measurement of deeply virtual compton scattering beam-spin asymmetries
Girod, FX; Niyazov, RA; Avakian, H; Ball, J; Bedlinskiy, I; Burkert, VD; De Masi, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 16 Article Number: 162002 (2008)

Measurement of ep -> ep pi(0) beam spin asymmetries above the resonance region
De Masi, R; Garcon, M; Zhao, B; Amaryan, MJ; Ambrozewicz, P; Anghinolfi, M; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 4 Article Number: 042201 (2008)

Polarized structure function sigma(')(LT) for H-1((e)over-right-arrow,e(')K(+))Lambda in the nucleon resonance region
Nasseripour, R; Raue, BA; Carman, DS; Ambrozewicz, P; Amaryan, MJ; Anciant, E; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 6 Article Number: 065208 (2008)

Light vector mesons in the nuclear medium
Wood, MH; Nasseripour, R; Weygand, DP; Djalali, C; Tur, C; Mosel, U; Muehlich, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015201 (2008)

Ratios of N-15/C-12 and He-4/C-12 inclusive electroproduction cross sections in the nucleon resonance region
Bosted, PE; Fersch, R; Adams, G; Amanian, M; Anefalos, S; Anghinolfi, M; Asryan, G; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015202 (2008)
Electroproduction of \(\phi(1020)\) mesons at \(1.4 \leq Q(2) \leq 3.8\) GeV\(^2\) measured with the CLAS spectrometer
Santoro, JP; Smith, ES; Garcon, M; Guidal, M; Laget, JM; Weiss, C; Adams, G; \textit{et al.}
PHYSICAL REVIEW C
Volume: 78 Issue: 2 Article Number: 025210 (2008)

Electroexcitation of the Roper resonance for \(1.7 < Q(2) < 4.5\) GeV\(^2\) in \(ep \rightarrow en\) \(\pi^+\)
Aznauryan, IG; Burkert, VD; Kim, W; Park, K; Adams, G; Amaryan, MJ; Ambrozewicz, P; \textit{et al.}
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045209 (2008)

First measurement of target and double spin asymmetries for \(ep \rightarrow ep\) \(\pi^0\) in the nucleon resonance region above the \(\Delta(1232)\)
Biselli, AS; Burkert, VD; Amaryan, MJ; Asryan, G; Avakian, H; Bagdasaryan, H; \textit{et al.}
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045204 (2008)

Paterson, G
Gary Paterson
Researcher
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2 records

Gallium oxide and gadolinium gallium oxide insulators on Si delta-doped GaAs/AlGaAs heterostructures
Paterson, GW; Longo, P; Wilson, JA; Craven, AJ; Long, AR; Thayne, IG; Passlack, M; Droopad, R
JOURNAL OF APPLIED PHYSICS
Volume: 104 Issue: 10 Article Number: 103719 (2008)

III-V MOSFETs for Digital Applications with Silicon Co-Integration
Kalna, K; Asenov, A; Ayubi-Moak, JS; Craven, AJ; Droopad, R; Hill, R; Holland, MC; \textit{et al.}
'Proceedings of the 7th International Conference on Advanced Semiconductor Devices and Microsystems', OCT 12-16, 2008, Smolenice, SLOVAKIA
ASDAM 2008, CONFERENCE PROCEEDINGS, Hascik, S, Osvald, J (Eds)

Paterson, L
Lynn Paterson
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Patterson, P
Claire Patterson
Research Student
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Zero records

Peacock, J
John Peacock
Academic
The University of Edinburgh
4 records
A Combined EIS-NVSS Survey Of Radio Sources (CENSORS) - III. Spectroscopic observations
Brookes, MH; Best, PN; Peacock, JA; Rottgering, HJA; Dunlop, JS
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The SCUBA Half Degree Extragalactic Survey (SHADES) - IX. The environment, mass and redshift dependence of star formation
Serjeant, S; Dye, S; Mortier, A; Peacock, J; Egami, E; Cirasuolo, M; Rieke, G; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Luminous red galaxy clustering at z similar or equal to 0.7 - first results using AAOmega
Ross, NP; Shanks, T; Cannon, RD; Wake, DA; Sharp, RG; Croom, SM; Peacock, JA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Review of particle physics
Amsler, C; Doser, M; Antonelli, M; Asner, DA; Babu, KS; Baer, H; Band, HR; et al.
PHYSICS LETTERS B

Current Research
John Peacock's research concentrates on cosmology with large imaging and spectroscopic surveys. The GAMA redshift survey will find groups of galaxies with improved fidelity to lower masses than previously possible, allowing dark-matter haloes to be located, and efficiency variations of galaxy formation within these haloes to be studied. Imaging data from the Pan-STARRS survey will provide photometric redshifts and allow the large-scale matter distribution to be mapped. Much effort is currently invested in planning the next generation of observational facilities: the WFMOS multi-fibre spectrograph and the EUCLID satellite, which will extend ground based studies and permit greatly improved measurements of the properties of dark energy.

Pearce, H
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Pearse, O
Owen Pearse
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University of St Andrews
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Pedretti, E
Ettore Pedretti
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Strong near-infrared emission interior to the dust sublimation radius of young stellar objects MWC 275 and AB Aurigae
Tannirkulam, A; Monnier, JD; Millan-Gabet, R; Harries, TJ; Pedretti, E; Ten Brummelaar, TA; et al.
ASTROPHYSICAL JOURNAL LETTERS
The limb-darkened Arcturus: imaging with the IOTA/IONIC interferometer
Lacour, S; Meimon, S; Thiebaut, E; Perrin, G; Verhoelst, T; Pedretti, E; Schuller, PA; et al.
Astronomy & Astrophysics

First resolved images of the eclipsing and interacting binary beta Lyrae
Zhao, M; Gies, D; Monnier, JD; Thureau, N; Pedretti, E; Baron, F; Merand, A; et al.
Astrophysical Journal Letters

A TALE OF TWO HERBIG Ae STARS, MWC 275 AND AB AURIGAE: COMPREHENSIVE MODELS FOR SPECTRAL ENERGY DISTRIBUTION AND INTERFEROMETRY
Tannirkulam, A; Monnier, JD; Harries, TJ; Millan-Gabet, R; Zhu, Z; Pedretti, E; et al.
Astrophysical Journal
Volume: 689 Issue: 1 Pages: 513-531 (2008)

CHARA Michigan Phase-tracker (CHAMP): A preliminary performance report - art. no. 701319
Berger, DH; Monnier, JD; Millan-Gabet, R; Brummelaar, TAT; Anderson, M; Blum, J; et al.
'Proceedings of the Conference on Optical and Infrared Interferometry', JUN 23-27, 2008, Marseille, FRANCE
Optical and Infrared Interferometry, Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE), Scholler, M, Danchi, WC, Delplancke, F (Eds)

Exoplanet Studies with CHARA-MIRC - art. no. 70131K
Zhao, M; Monnier, JD; ten Brummelaar, T; Pedretti, E; Thureau, ND
'Proceedings of the Conference on Optical and Infrared Interferometry', JUN 23-27, 2008, Marseille, FRANCE
Optical and Infrared Interferometry, Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE), Scholler, M, Danchi, WC, Delplancke, F (Eds)

Imaging the Surface of Altair and a MIRC Update - art. no. 701302
Monnier, JD; Zhao, M; Pedretti, E; Thureau, N; Ireland, M; Muirhead, P; Berger, JP; et al.
'Proceedings of the Conference on Optical and Infrared Interferometry', JUN 23-27, 2008, Marseille, FRANCE
Optical and Infrared Interferometry, Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE), Scholler, M, Danchi, WC, Delplancke, F (Eds)

Last technology and results from the IOTA interferometer - art. no. 70132V
Pedretti, E; Trub, WA; Monnier, JD; Schuller, PA; Ragland, S; Berger, JP; et al.
'Proceedings of the Conference on Optical and Infrared Interferometry', JUN 23-27, 2008, Marseille, FRANCE
Optical and Infrared Interferometry, Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE), Scholler, M, Danchi, WC, Delplancke, F (Eds)
The Gas-Dust Transition Region in Young Stellar Objects: A sub-milli-arcsecond view through the eyes of CHARA - art. no. 70130U
Tannirkulam, A; Monnier, JD; Millan-Gabet, R; Harries, TJ; Pedretti, E; Zhu, Z; Brummelaar, TAT
'Proceedings of the Conference on Optical and Infrared Interferometry', JUN 23-27, 2008, Marseille, FRANCE
OPTICAL AND INFRARED INTERFEROMETRY, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Scholler, M, Danchi, WC, Delplancke, F (Eds)

VITRUV precursors: IONIC2T/IONIC3T
Berger, JP; Haguenauer, P; Kern, P; Lebouquin, JB; Jocou, L; Perraut, K; Malbet, F; et al.
'Proceedings of the ESO Workshop 2005', APR 04-08, 2005, Garching, GERMANY
POWER OF OPTICAL/IR INTERFEROMETRY: RECENT SCIENTIFIC RESULTS AND 2ND GENERATION INSTRUMENTATION, ESO ASTROPHYSICS SYMPOSIA, Richichi, A, Delplancke, F, Paresce, F, Chelli, A (Eds)
Pages: 589-591 (2008)

Pegrum, C
Colin Pegrum
Researcher
University of Strathclyde in Glasgow
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Pendleton, B
Brian Pendleton
Academic
The University of Edinburgh
2 records

Neutral-kaon mixing from (2+1)-flavor domain-wall QCD
Antonio, DJ; Boyle, PA; Blum, T; Christ, NH; Cohen, SD; Dawson, C; Izubuchi, T; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 3 Article Number: 032001 (2008)

Physical results from 2+1 flavor domain wall QCD and SU(2) chiral perturbation theory
Allton, C; Antonio, DJ; Aoki, Y; Blum, T; Boyle, PA; Christ, NH; Clark, MA; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 114509 (2008)

Penedo-Esteiro, C
Carlos Penedo-Esteiro
Researcher
University of St Andrews
1 record

PCNA stimulates catalysis by structure-specific nucleases using two distinct mechanisms: substrate targeting and catalytic step
Hutton, RD; Roberts, JA; Penedo, JC; White, MF
NUCLEIC ACIDS RESEARCH

Pennicard, D
David Pennicard
Research Student
University of Glasgow
2 records
First double-sided 3-D detectors fabricated at CNM-IMB
Pellegrini, G; Lozano, M; Ullan, M; Bates, R; Fleta, C; Pennicard, D
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-
ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Simulations of radiation-damaged 3D detectors for the Super-LHC
Pennicard, D; Pellegrini, G; Fleta, C; Bates, R; O'Shea, V; Parkes, C; Tartoni, N
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-
ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Penny, A
Alan Penny
Academic
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1 record

Polaris the Cepheid returns: 4.5 years of monitoring from ground and space
Bruntt, H; Evans, NR; Stello, D; Penny, AJ; Eaton, JA; Buzasi, DL; Sasselov, DD; et al.
ASTROPHYSICAL JOURNAL

Perreur-Lloyd, MM
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Perry, J
James Perry
Researcher
The University of Edinburgh
Zero records

Perry, RS
Robin Perry
Researcher
The University of Edinburgh
3 records

Fermi surface and van hove singularities in the itinerant metamagnet Sr3Ru2O7
Tamai, A; Allan, MP; Mercure, JF; Meevasana, W; Dunkel, R; Lu, DH; Perry, RS; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 2 Article Number: 026407 (2008)

Effect of electron doping the metamagnet Sr3-yLa_yRu2O7
Farrell, J; Perry, RS; Rost, A; Mercure, JF; Kikugawa, N; Grigera, SA; Mackenzie, AP
PHYSICAL REVIEW B
Volume: 78 Issue: 18 Article Number: 180409 (2008)

Spin dynamics in Sr3Ru2O7 near the metamagnetic transition by inelastic neutron scattering
Ramos, S; Forgan, EM; Bowell, C; Hayden, SM; Schofield, AJ; Wildes, A; Yelland, EA; et al.
'Proceedings of the International Conference on Strongly Correlated Electron Systems (SCES 2007)',
MAY 13-18, 2007, Houston, TX
PHYSICA B-CONDENSED MATTER
Volume: 403 Issue: 5-9 Pages: 1270-1272 (2008)
**Petrie, D**  
David Petrie  
Research Student  
University of Glasgow  
1 record

*The LHCb Detector at the LHC*  
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; *et al.*  
JOURNAL OF INSTRUMENTATION  
Volume: 3 Article Number: S08005 (2008)

**Pham, NT**  
Nhan Pham  
Researcher  
The University of Edinburgh  
2 records

*Enzymatic glycosylation of peptide arrays on gold surfaces*  
Laurent, N; Voglmeir, J; Wright, A; Blackburn, J; Pham, NT; Wong, SCC; Gaskell, SJ; Flitsch, SL  
CHEMBIOCHEM  

*Imaging thin and ultrathin organic films by scanning white light interferometry*  
Madani-Grasset, F; Pham, NT; Glynos, E; Koutsos, V  
'Proceedings of the 4th International Workshop on Nanoscience and Nanotechnologies', JUL 16-18, 2007, Thessaloniki, GREECE  
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS  

**Phelps, ADR**  
Alan Phelps  
Academic  
University of Strathclyde in Glasgow  
16 records

*Free-electron maser based on a cavity with two- and one-dimensional distributed feedback*  
Konoplev, IV; Cross, AW; Maclnnes, P; He, W; Phelps, ADR; Whyte, CG; Ronald, K; Robertson, CW  
APPLIED PHYSICS LETTERS  
Volume: 92 Issue: 21 Article Number: 211501 (2008)

*Demonstration of auroral radio emission mechanisms by laboratory experiment*  
McConville, SL; Speirs, DC; Ronald, K; Phelps, ADR; Cross, AW; Bingham, R; *et al.*  
PLASMA PHYSICS AND CONTROLLED FUSION  
Volume: 50 Issue: 7 Article Number: 074010 (2008)

*Numerical simulation of auroral cyclotron maser processes*  
Speirs, DC; McConville, SL; Gillespie, KM; Ronald, K; Phelps, ADR; Cross, AW; *et al.*  
PLASMA PHYSICS AND CONTROLLED FUSION  
Volume: 50 Issue: 7 Article Number: 074011 (2008)

*Axis-encircling electron beam generation using a smooth magnetic cusp for gyrodevices*  
He, W; Whyte, CG; Rafferty, EG; Cross, AW; Phelps, ADR; Ronald, K; Young, AR; *et al.*  
APPLIED PHYSICS LETTERS  
Volume: 93 Issue: 12 Article Number: 121501 (2008)
Wave propagation and tunneling through periodic structures
Konoplev, IV; Maclnnes, P; Cross, AW; Phelps, ADR; Fisher, L; Ronald, K
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 23 Article Number: 231110 (2008)

Radio frequency resonator structure and diagnostic measurements for a laboratory simulation of Auroral Kilometric Radiation
Ronald, K; Speirs, DC; McConville, SL; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
PHYSICS OF PLASMAS
Volume: 15 Issue: 5 Article Number: 056503 (2008)

Electron beam measurements for a laboratory simulation of auroral kilometric radiation
Ronald, K; McConville, SL; Speirs, DC; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
'Proceedings of the 28th International Conference on Phenomena in Ionized Gases', JUL 15-20, 2007, Prague, CZECH REPUBLIC
PLASMA SOURCES SCIENCE & TECHNOLOGY
Volume: 17 Issue: 3 Article Number: 035011 (2008)

3D PiC code simulations for a laboratory experimental investigation of Auroral Kilometric Radiation mechanisms
Gillespie, KM; Speirs, DC; Ronald, K; McConville, SL; Phelps, ADR; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 12 Article Number: 124038 (2008)

A fast multilayer window design tool, simulations and comparison with experiment
Whyte, CG; Young, AR; Rowlands, DH; Robertson, CW; Phelps, ADR; He, WL; Cross, AW; Ronald, K
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 316-317 (2008)

A similar to 10kW W-Band Gyro-BWO using a Helically Corrugated Waveguide
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Philbin, TG
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7 records

Fiber-optical analog of the event horizon
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Phillips, N
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Claudio Pica
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Pickard, C
Chris Pickard
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Pickford, AN
Andrew Pickford
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2 records

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Pidgeon, CR
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7 records

Temperature dependence of the electron Lande g factor in InSb and GaAs
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Current Research
CRP (together with Professor B N Murdin, University of Surrey) is in charge of the EPSRC funded UK ‘user station’ at the Dutch free electron laser (FELIX) and directs a programme on nonlinear and time-resolved semiconductor spectroscopy there. The programme on electron and spin relaxation studies has been supported by EPSRC and EU grants to Heriot-Watt. My programme at FELIX emphasises two research themes in semiconductor device physics: electron spin relaxation dynamics of narrow gap semiconductor structures, and optically pumped Si/SiGe quantum fountain and impurity laser structures.

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14 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
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Search for Gravitational-Wave Bursts from Soft Gamma repeaters
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First joint search for gravitational-wave bursts in LIGO and GEO 600 data
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Searching for gravitational waves from Cassiopeia A with LIGO
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Astrophysically triggered searches for gravitational waves: status and prospects
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Placido, F
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5 records

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Steve Playfer
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63 records

Exclusive branching-fraction measurements of semileptonic tau decays into three charged hadrons, into phi pi(-)nu(tau), and into phi K-nu(tau)
Aubert, B; Bona, M; Boutigny, D; Couderc, F; Karyotakis, Y; Lees, JP; Poireau, V; et al.
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Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Search for B+->tau(+)(nu)over-bar(tau) and evidence for B - > D tau(-)(nu)over-bar(tau)
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Determination of the form factors for the decay B-0 -> D*(-)(nu)over-bar(l) and of the CKM matrix element vertical bar Vcb vertical bar
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Search for decays of \(B^-\) mesons into \(e^+e^-, \mu^+\mu^-\) and \(e^+/e^-\mu^-/\mu^+\) final states
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Search for lepton flavor violating decays \(\tau^{(+/-)} \rightarrow l^{(+/-)}\Omega\)
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Study of \((B)^{-}\rightarrow\Xi(c)(\Lambda)\overline{c}(\Lambda)\overline{c}(\Xi)\) and \((B)^{-}\rightarrow\Lambda^{(c)}(\Lambda)\overline{c}(\Lambda)\overline{c}(\Xi)\) decays at BABAR
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Measurement of the branching fractions of exclusive \((B)^{-}\rightarrow D^{(-)}(\pi)l^{(-)}(\nu)\overline{c}\overline{c}\overline{c}\) decays in events with a fully reconstructed \(b\) meson
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
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Time-dependent Dalitz plot analysis of \(B^-\rightarrow(D\overline{c}\overline{c})(K^0)\rightarrow(\pi\pi)\pi\) decays
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Measurements of \(e^+e^-\rightarrow K+K-\text{eta}, K+K-\text{pi}(0), \) and \((KsK^{+/-})\rightarrow K^0 \pi(\pi^+)\) cross sections using initial state radiation events
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Measurements of partial branching fractions for \((B)^{-}\rightarrow X(u)l^{(-)}(\nu)\overline{c}\overline{c}\overline{c}\) and determination of \(\vert V_{ub}\vert\)
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Searches for the decays $B^{-0} \rightarrow l^{(+/-)\tau}(+/-)$ and $B^{+} \rightarrow l^{(+)}\nu$ ($l = e, \mu$) using hadronic tag reconstruction
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prudent, X; Tisserand, V; et al.
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Improved measurement of CP observables in $B^{-+/--}(D_{CPK}^{+/-})K^{-0}$ decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
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Measurement of the decay $B^{\rightarrow} D^{(*)0}e^{-}(\nu)e^{-}(\nu)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prudent, X; Tisserand, V; et al.
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Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, J; Poireau, V; Prudent, X; et al.
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Study of $B \rightarrow X(3872)K$, with $X(3872) \rightarrow J/\psi \pi^{(+)}\pi^{(-)}$
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Evidence for CP violation in $B^{-0} \rightarrow J/\psi \pi^{(0)}$ decays
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Measurement of $D^{0-}(D^{0})\overline{\nu} \rightarrow K^{-}\pi^{+}, K^{-}\pi^{+}, and \pi^{-}\nu(\tau)$
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Measurement of the mass difference $m(B^{-0})-m(B^{+})$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
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Observation of $B^{+}\rightarrow b(1)(+)K(0)$ and search for $B$-meson decays to $b(1)(0)K(0)$ and $b(1)(0)\pi(0)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
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Search for CP violation in neutral D meson Cabibbo-suppressed three-body decays
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Study of the decay $D^{-s}(+) \rightarrow K^{+}K^{(-)}e^{(+)}\nu(e)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Principe, E; Prudent, X; et al.
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Plehn, T
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Yielding behavior of repulsion- and attraction-dominated colloidal glasses
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Poulter, M
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10 records

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Cross sections and beam asymmetries for \((e)\overrightarrow{p} \rightarrow e n \pi^+\) in the nucleon resonance region for \(1.7 \leq Q(2) \leq 4.5 \text{ GeV}^2\)
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Er : Yb-doped oxyfluoride silicate glass waveguide laser fabricated using ultrafast laser inscription
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Yielding behavior of repulsion- and attraction-dominated colloidal glasses
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1 record

*Electron acceleration by amplified wakefield generated by two copropagating laser pulses in plasma*  
Raj, G; Upadhyaya, AK; Mishra, RK; Jha, P  
PHYSICAL REVIEW SPECIAL TOPICS-ACCELERATORS AND BEAMS  
Volume: 11 Issue: 7 Article Number: 071301 (2008)

**Rajan, A**  
Akhil Rajan  
Research Student  
Heriot-Watt University  
Zero records

**Rakotomiaramanana, B**  
Barinjaka Rakotomiaramanana  
Research Student  
University of Glasgow  
1 record

*The LHCb Detector at the LHC*  
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.  
JOURNAL OF INSTRUMENTATION  
Volume: 3 Article Number: S08005 (2008)

**Current Research**  
My research is based on three different topics. Firstly, the design, installation and characterisation of the high voltage system for the innermost sub-detector of the LHCb named Vertex Locator (VELO). LHCb is one of four main experiments of the Large Hadron Collider (LHC) at CERN. The VELO is mainly made of silicon strips detectors that need to be reverse biased during operation. This introduces the second topic of my research about the isolation techniques used for p-type silicon detector for LHC upgrade purpose. As the silicon detectors undergo radiation damage their performance decreases and therefore required to supplying higher voltage. Nevertheless the voltage to be applied is limited by the environment under which the silicon sensors are used. In this context, p-type silicon strip detectors with different isolation techniques are studied before and after being irradiated.

The last part of my research treats one of the main topics of interest in LHC, new physics searches through the rare decay Bd to Kst mu-. My contribution reside in the study of the effects of detector misalignments to this channel. The decay Bd to Kstar mu+ mu- is a Flavour-Changing Neutral Current which proceeds via b to s transition through penguin diagram. It allows indirect searches for New Physics phenomena.

**Ramsay, E**  
Euan Ramsay  
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7 records

*Nanoscale optical microscopy in the vectorial focusing regime*  
Serreles, KA; Ramsay, E; Warburton, RJ; Reid, DT  
NATURE PHOTONICS  
Volume: 2 Issue: 5 Pages: 311-314 (2008)
Shaping ultrafast laser inscribed optical waveguides using a deformable mirror
Thomson, RR; Bockelt, AS; Ramsay, E; Beecher, S; Greenaway, AH; Kar, AK; Reid, DT
OPTICS EXPRESS

Optical super-resolution with aperture-function engineering
Ramsay, E; Serrels, KA; Waddie, AJ; Taghizadeh, MR; Reid, DT
AMERICAN JOURNAL OF PHYSICS

Solid immersion lens applications for nanophotonic devices
Serrels, KA; Ramsay, E; Dalgarno, PA; Gerardot, BD; O'Connor, JA; Hadfield, RH; Warburton, RJ; Reid, DT
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021854 (2008)

Investigation of Local Photon Detection Efficiency Distributions in Nanowire Superconducting Single-Photon Detectors
Baek, B; Gansen, EJ; Stevens, MJ; Mirin, RP; Nam, SW; Hadfield, RH; Dalgarno, PA; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 3233-3234 (2008)

Nanoscale Optical Microscopy in the Vectorial Focusing Regime
Serrels, KA; Ramsay, E; Warburton, RJ; Reid, DT
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 3299-3300 (2008)

Optical Super-Resolution through Aperture-Function Engineering and Vectorial-Focusing Effects
Serrels, KA; Ramsay, E; Waddie, AJ; Taghizadeh, MR; Reid, DT
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2870-2871 (2008)

Rangel, R
Roberval Rangel
Researcher
The University of Edinburgh
Zero records

Rauch, M
Michael Rauch
Researcher
The University of Edinburgh
1 record

Measuring supersymmetry
Lafaye, R; Plehn, T; Rauch, M; Zerwas, D
EUROPEAN PHYSICAL JOURNAL C
Ray, S
Soumya J. Ray
Research Student
University of St Andrews
Zero records

Read, M
Mike Read
Researcher
The University of Edinburgh
4 records

The WFCAM science archive
Hambly, NC; Collins, RS; Cross, NJG; Mann, RG; Read, MA; Sutorius, ETW; Bond, I; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

The UKIDSS Galactic Plane Survey
Lucas, PW; Hoare, MG; Longmore, A; Schroder, AC; Davis, CJ; Adamson, A; Bandyopadhyay, RM; et al.
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A Python environment for database curation
Sutorius, E; Bryant, J; Collins, R; Cross, N; Hambly, N; Read, M
ASTRONOMICAL DATA ANALYSIS SOFTWARE AND SYSTEMS XVII, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Argyle, RW, Bunclark, PS, Lewis, JR (Eds)

Recalibration of data in the VDFS Science Archives
Cross, N; Hambly, N; Collins, R; Read, M; Sutorius, E
ASTRONOMICAL DATA ANALYSIS SOFTWARE AND SYSTEMS XVII, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES, Argyle, RW, Bunclark, PS, Lewis, JR (Eds)

Reardon, C
Christopher Reardon
Research Student
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Reid, DT
Derryck Reid
Academic
Heriot-Watt University
14 records

Weak-guidance-theory review of dispersion and birefringence management by laser inscription
Zheltikov, AM; Reid, DT
LASER PHYSICS LETTERS
Volume: 5 Issue: 1 Pages: 11-20 (2008)
Designer femtosecond pulse shaping using grating-engineered quasi-phase-matching in lithium niobate
Kornaszewski, L; Kohler, M; Sapaev, UK; Reid, DT
OPTICS LETTERS

Frequency comb generation and carrier-envelope phase control in femtosecond optical parametric oscillators
Reid, DT; Gale, BJS; Sun, J
LASER PHYSICS
Volume: 18 Issue: 2 Pages: 87-103 (2008)

Towards versatile coherent pulse synthesis using femtosecond laser and optical parametric oscillators
Gale, BJS; Sun, JH; Reid, DT
OPTICS EXPRESS
Volume: 16 Issue: 3 Pages: 1616-1622 (2008)

Mid-infrared gas sensing using a photonic bandgap fiber
Gayraud, N; Kornaszewski, LW; Stone, JM; Knight, JC; Reid, DT; Hand, DP; MacPherson, WN
APPLIED OPTICS

Nanoscale optical microscopy in the vectorial focusing regime
Serrels, KA; Ramsay, E; Warburton, RJ; Reid, DT
NATURE PHOTONICS
Volume: 2 Issue: 5 Pages: 311-314 (2008)

Shaping ultrafast laser inscribed optical waveguides using a deformable mirror
Thomson, RR; Bockelt, AS; Ramsay, E; Beecher, S; Greenaway, AH; Kar, AK; Reid, DT
OPTICS EXPRESS

Optical super-resolution with aperture-function engineering
Ramsay, E; Serrels, KA; Waddie, AJ; Taghizadeh, MR; Reid, DT
AMERICAN JOURNAL OF PHYSICS

Solid immersion lens applications for nanophotonic devices
Serrels, KA; Ramsay, E; Dalgarno, PA; Gerardot, BD; O'Connor, JA; Hadfield, RH; Warburton, RJ; Reid, DT
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021854 (2008)

Designer Femtosecond Pulse Shaping Using Grating-Engineered Quasi-Phasematching in Lithium Niobate
Kornaszewski, L; Kohler, M; Reid, DT; Sapaev, UK
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Pages: 1877-1878 (2008)
Nanoscale Optical Microscopy in the Vectorial Focusing Regime
Serrels, KA; Ramsay, E; Warburton, RJ; Reid, DT
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 3299-3300 (2008)

Optical Super-Resolution through Aperture-Function Engineering and Vectorial-Focusing Effects
Serrels, KA; Ramsay, E; Waddie, AJ; Taghizadeh, MR; Reid, DT
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2870-2871 (2008)

Towards coherent pulse synthesis using independently tunable femtosecond oscillators
Gale, BJS; Sun, JH; Reid, DT
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 9-10 (2008)

Ultrafast laser inscription of a three dimensional fan-out device for multicore fiber coupling applications
Thomson, RR; Bookey, HT; Psaila, ND; Fender, A; Campbell, S; Macpherson, WN; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2812-2813 (2008)

Current Research
Research in the Ultrafast Optics Group at Heriot-Watt University covers applications of femtosecond laser in semiconductor microscopy, laser machining, waveguide creation, frequency-comb generation, coherent pulse synthesis and pulse shaping using adaptive optics and engineered nonlinear crystals. For a full description of current work, visit: http://www.phy.hw.ac.uk/resrev/ufast

Reid, FJL
Fiona Reid
Researcher
The University of Edinburgh
1 record

Genome-wide association scan identifies a colorectal cancer susceptibility locus on 11q23 and replicates risk loci at 8q24 and 18q21
Tenesa, A; Farrington, SM; Prendergast, JGD; Porteous, ME; Walker, M; Haq, N; et al.
NATURE GENETICS

Reid, H
Hamish Reid
Research Student
University of Glasgow
Zero records
Reid, S
Stuart Reid
Researcher
University of Glasgow
12 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

The effects of heating on mechanical loss in tantala/silica optical coatings
Abernathy, MR; Harry, GM; Travasso, F; Martin, I; Reid, S; Rowan, S; Hough, J; et al.
PHYSICS LETTERS A

Measurements of a low-temperature mechanical dissipation peak in a single layer of Ta2O5 doped with TiO2
Martin, I; Armandula, H; Comtet, C; Fejer, MM; Gretarsson, A; Harry, G; Hough, J; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 5 Article Number: 055005 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikai, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS
First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Reiter, T
Thomas Reiter
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1 record

Precise predictions for LHC using a GOLEM
Binoth, T; Guffanti, A; Guillet, JP; Heinrich, G; Karg, S; Kauer, N; Mertsch, P; et al.
Proceedings of the 9th DESY Workshop on Elementary Particle Theory', APR 20-25, 2008, Sondershausen, GERMANY
NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS

Reynolds, S
Simon Reynolds
Research Student
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Zero records

Rice, WKM
Ken Rice
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The University of Edinburgh
3 records

Why are there so few hot Jupiters?
Rice, WKM; Armitage, PJ; Hogg, DF
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Star formation around supermassive black holes
Bonnell, IA; Rice, WKM
SCIENCE

Enhanced dust emission in the HL Tau disc: a low-mass companion in formation?
Greaves, JS; Richards, AMS; Rice, WKM; Muxlow, TWB
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Current Research

Current research is focused in a number of areas. There is ongoing work to model and understand the evolution of self-gravitating protoplanetary discs, especially when considering more realistic initial conditions. A new project will also start investigating the role of convection in self-gravitating discs, to see if this can play a significant role in energy transport. Related to this is a project looking at the evolution of close-in giant planets, more commonly known as ‘hot Jupiters’ to try and understand how they get to their current positions.

Richardson, J
Jenny Richardson
Research Student
The University of Edinburgh
2 records

The nature and origin of substructure in the outskirts of M31. I. Surveying the stellar content with the Hubble Space Telescope Advanced Camera for Surveys
Richardson, JC; Ferguson, AMN; Johnson, RA; Irwin, MJ; Tanvir, NR; Faria, DC; et al.
ASTRONOMICAL JOURNAL

Multiple stellar populations in three rich large Magellanic Cloud star clusters
Mackey, AD; Nielsen, PB; Ferguson, AMN; Richardson, JC
ASTROPHYSICAL JOURNAL LETTERS

Riedi, P
Peter Riedi
Academic
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Zero records

Rigby, EE
Emma Rigby
Researcher
The University of Edinburgh
1 record

A sample of mJy radio sources at 1.4 GHz in the Lynx and Hercules fields - II. Cosmic evolution of the space density of FR I radio sources
Rigby, EE; Best, PN; Snellen, IAG
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Riis, E
Erling Riis
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3 records

Smooth inductively coupled ring trap for atoms
Griffin, PF; Riis, E; Arnold, AS
PHYSICAL REVIEW A
Volume: 77 Issue: 5 Article Number: 051402 (2008)
Confocal laser scanning microscopy using a frequency doubled vertical external cavity surface emitting laser
Esposito, E; Keatings, S; Gardner, K; Harris, J; Riis, E; McConnell, G
REVIEW OF SCIENTIFIC INSTRUMENTS
Volume: 79 Issue: 8 Article Number: 083702 (2008)

Reproducible dynamic dark ring lattices for ultracold atoms
Houston, N; Riis, E; Arnold, AS
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS
Volume: 41 Issue: 21 Article Number: 211001 (2008)

Robb, GRM
Gordon Robb
Academic
University of Strathclyde in Glasgow
4 records

Enhancement of collective atomic recoil lasing due to pump phase modulation
Robb, GRM; Burgess, RTL; Firth, WJ
PHYSICAL REVIEW A
Volume: 78 Issue: 4 Article Number: 041804 (2008)

HGHG schemes for short wavelengths
Marinelli, A; Bonifacio, R; Vaccarezza, C; Robb, GRM
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Quantum regime of harmonic generation in the free electron laser
Robb, G
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

The quantum free-electron laser
Bonifacio, R; Piovella, N; Cola, MM; Volpe, L; Schiavi, A; Robb, GRM
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Current Research
Gordon Robb’s research interests involve collective phenomena arising through interactions between light and matter. His current research mainly involves theoretical studies of collective scattering of light by ultracold atomic gases and the quantum regime of the free electron laser.

Robertson, CW
Craig Robertson
Researcher
University of Strathclyde in Glasgow
11 records
Free-electron maser based on a cavity with two- and one-dimensional distributed feedback
Konoplev, IV; Cross, AW; MacInnes, P; He, W; Phelps, ADR; Whyte, CG; Ronald, K; Robertson, CW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 21 Article Number: 211501 (2008)

Demonstration of auroral radio emission mechanisms by laboratory experiment
McConville, SL; Speirs, DC; Ronald, K; Phelps, ADR; Cross, AW; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074010 (2008)

Numerical simulation of auroral cyclotron maser processes
Speirs, DC; McConville, SL; Gillespie, KM; Ronald, K; Phelps, ADR; Cross, AW; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074011 (2008)

Axis-encircling electron beam generation using a smooth magnetic cusp for gyrodevices
He, W; Whyte, CG; Rafferty, EG; Cross, AW; Phelps, ADR; Ronald, K; Young, AR; et al.
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 12 Article Number: 121501 (2008)

Radio frequency resonator structure and diagnostic measurements for a laboratory simulation of Auroral Kilometric Radiation
Ronald, K; Speirs, DC; McConville, SL; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
PHYSICS OF PLASMAS
Volume: 15 Issue: 5 Article Number: 056503 (2008)

Electron beam measurements for a laboratory simulation of auroral kilometric radiation
Ronald, K; McConville, SL; Speirs, DC; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
'Proceedings of the 28th International Conference on Phenomena in Ionized Gases', JUL 15-20, 2007, Prague, CZECH REPUBLIC
PLASMA SOURCES SCIENCE & TECHNOLOGY
Volume: 17 Issue: 3 Article Number: 035011 (2008)

3D PiC code simulations for a laboratory experimental investigation of Auroral Kilometric Radiation mechanisms
Gillespie, KM; Speirs, DC; Ronald, K; McConville, SL; Phelps, ADR; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 12 Article Number: 124038 (2008)

A fast multilayer window design tool, simulations and comparison with experiment
Whyte, CG; Young, AR; Rowlands, DH; Robertson, CW; Phelps, ADR; He, WL; Cross, AW; Ronald, K
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 316-317 (2008)

Broadband gyro-TWA with thermionic CUSP gun: Simulations and comparison with experiment
Whyte, CG; Young, AR; Rowlands, DH; Robertson, CW; Phelps, ADR; He, WL; Cross, AW; Ronald, K
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 89-90 (2008)
High Power Masers based on 2D periodic structures: from the GHz to THz frequency range
Fisher, L; MacInnes, P; Konoplev, IV; Cross, AW; He, W; Ronald, K; Phelps, ADR; et al.
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 418-419 (2008)

Laboratory Reproduction of Auroral Magnetospheric Radio Wave Sources
Ronald, K; Speirs, DC; McConville, SL; Gillespie, KM; Phelps, ADR; Cross, AW; et al.
FRONTIERS IN MODERN PLASMA PHYSICS, AIP CONFERENCE PROCEEDINGS, Shukla, PK, Eliasson, B, Stenflo, L (Eds)

Robertson, DA
Duncan Robertson
Researcher
University of St Andrews
2 records

Lava dome growth and mass wasting measured by a time series of ground-based radar and seismicity observations
Wadge, G; Macfarlane, DG; Odbert, HM; James, MR; Hole, JK; Ryan, G; Bass, V; et al.
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH
Volume: 113 Issue: B8 Article Number: B08210 (2008)

Predicting Range Point Response from Chirp Non-linearity
Middleton, RJC; Robertson, DA
'Proceedings of the International Conference on Radar', SEP 02-05, 2008, Adelaide, AUSTRALIA
2008 INTERNATIONAL CONFERENCE ON RADAR, VOLS 1 AND 2

Robertson, DI
David Robertson
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Robertson, N
Norma Robertson
Academic
University of Glasgow
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All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Charge neutralization in vacuum for non-conducting and isolated objects using directed low-energy electron and ion beams
Buchman, S; Byer, RL; Gill, D; Robertson, NA; Sun, KX
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 3 Article Number: 035004 (2008)
Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
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ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
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Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY, IOP PUBLISHING LTD
Volume: 25 Issue: 11 Article Number: 114051 (2008)

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4 records
Fiber-optical analog of the event horizon
Philbin, TG; Kuklewicz, C; Robertson, S; Hill, S; Konig, F; Leonhardt, U
SCIENCE

Fiber-optical analogue of the event horizon
Konig, F; Philbin, TG; Kuklewicz, CE; Robertson, S; Hill, S; Leonhardt, U
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9

Frequency shifts at the fiber-optical event horizon
Kuklewicz, CE; Philbin, TG; Robertson, S; Hill, S; Koenig, F; Leonhardt, U
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9

Optical analogue of the event horizon demonstrated with microstructured fibers - art. no. 69871C
Philbin, TG; Kuklewicz, C; Robertson, S; Hill, S; Konig, F; Leonhardt, U
METAMATERIALS III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Johnson, NP, Ozbay, E, Zheludev, NI, Ziolkowski, RW (Eds)
Volume: 6987 Pages: C9871-C9871 (2008)

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Robinson, J
Jamie Robinson
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Zero records

Robitaille, TP
Thomas Robitaille
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7 records

A Spitzer survey of young stellar objects in the Rosette Molecular Cloud
Poulton, CJ; Robitaille, TP; Greaves, JS; Bonnell, IA; Williams, JP; Heyer, MH
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Cross-section-constrained top-quark mass measurement from dilepton events at the tevatron
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 6 Article Number: 062005 (2008)

Direct measurement of the W boson width in p(p)over-bar collisions at root s=1.96 TeV
Aaltonen, T; Adelman, J; Akimoto, T; Albrow, MG; Gonzalez, BA; Amerio, S; Amidei, D; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 7 Article Number: 071801 (2008)

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He-3(e,e'pp) and He-3(e,e'pn) reactions at AmPS and MAMI
Middleton, DG; Annand, JRM; Antelo, MA; Ayerbe, C; Barneo, P; Baumann, D; Bermuth, J; et al.
'Proceedings of the 20th European Conference on Few-Body Problems in Physics', SEP 10-14, 2007,
Pisa, ITALY
FEW-BODY SYSTEMS, SPRINGER WIEN
Volume: 44 Issue: 01-Apr Pages: 171-174 (2008)

Rost, A
Andreas Rost
Research Student
University of St Andrews
2 records

Effect of electron doping the metamagnet Sr3-yLayRu2O11
Farrell, J; Perry, RS; Rost, A; Mercure, JF; Kikugawa, N; Grigera, SA; Mackenzie, AP
PHYSICAL REVIEW B
Volume: 78 Issue: 18 Article Number: 180409 (2008)

de Haas-van Alphen oscillations in the charge density wave compound lanthanum tritelluride LaTe3
Ru, N; Borzi, RA; Rost, A; Mackenzie, AP; Laverock, J; Dugdale, SB; Fisher, IR
PHYSICAL REVIEW B
Volume: 78 Issue: 4 Article Number: 045123 (2008)

Roth, P
Peter Roth
Research Student
University of Strathclyde in Glasgow
1 record

Efficiency and Beam Quality Analysis of a Semiconductor Disk Laser
Roth, P; Maclean, AJ; Kemp, AJ; Calvez, S; Dawson, MD; Burns, D
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 1806-1807 (2008)

Rowan, S
Sheila Rowan
Academic
University of Glasgow
13 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)
The effects of heating on mechanical loss in tantala/silica optical coatings
Abernathy, MR; Harry, GM; Travasso, F; Martin, I; Reid, S; Rowan, S; Hough, J; et al.
PHYSICS LETTERS A

Measurements of a low-temperature mechanical dissipation peak in a single layer of Ta2O5
doped with TiO2
Martin, I; Armandula, H; Comtet, C; Fejer, MM; Gretarsson, A; Harry, G; Hough, J; et al.
EUROPEAN JOURNAL OF PHYSICS
Volume: 29 Issue: 2 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the
second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdenio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron
star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Hydroxide catalysis bonding of silicon carbide
van Veggel, AA; van den Ende, D; Bogenstahl, J; Rowan, S; Cunningham, W; Gubbels, GHM;
Nijmeijer, H
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY
**Current Research**

My research is focused on reducing thermal noise in interferometric gravitational wave detectors. Currently this is directed towards two main areas. Firstly, installation of developments of instrumentation conceived for the UK-German GEO detector into the larger US LIGO detectors, to form an Advanced LIGO system capable of 'seeing' astrophysical sources in a 1000 times greater volume of the Universe than current detectors. Secondly, my current research is targeted at enabling a future European detector on the post-2017 timescale, with a design study for such a '3rd generation' detector under the EC Framework 7 program recently approved for funding.

**Rowell, NR**

Nicholas Rowell  
Research Student  
The University of Edinburgh  
1 record

*A new ultracool white dwarf discovered in the superCOSMOS sky survey*  
Rowell, NR; Kilic, M; Hambly, NC  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY  

**Rowlands, DH**

David Rowlands  
Research Student  
University of Strathclyde in Glasgow  
3 records

*Axis-encircling electron beam generation using a smooth magnetic cusp for gyrodevices*  
He, W; Whyte, CG; Rafferty, EG; Cross, AW; Phelps, ADR; Ronald, K; Young, AR; et al.  
APPLIED PHYSICS LETTERS  
Volume: 93 Issue: 12 Article Number: 121501 (2008)

*A fast multilayer window design tool, simulations and comparison with experiment*  
Whyte, CG; Young, AR; Rowlands, DH; Robertson, CW; Phelps, ADR; He, WL; Cross, AW; Ronald, K  
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE  
Pages: 316-317 (2008)

*Broadband gyro-TWA with thermionic CUSP gun: Simulations and comparison with experiment*  
Whyte, CG; Young, AR; Rowlands, DH; Robertson, CW; Phelps, ADR; He, WL; Cross, AW; Ronald, K  
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE  
Pages: 89-90 (2008)
Rozbicki, E
Emil Rozbicki
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University of St Andrews
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Fatima Rubio da Costa
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University of Glasgow
Zero records

Rudd, D
Daniel Rudd
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Ruddock, IS
Ivan Ruddock
Researcher
University of Strathclyde in Glasgow
1 record

Distributed optical fibre sensing of temperature using time-correlated two-photon excited fluorescence: theoretical overview
Dalzell, CJ; Han, TPJ; Ruddock, IS
APPLIED PHYSICS B-LASERS AND OPTICS

Rudhall, A
Andrew Rudhall
Research Student
University of St Andrews
Zero records

Ruseckas, A
Arvydas Ruseckas
Researcher
University of St Andrews
14 records

Triplet exciton diffusion and phosphorescence quenching in Iridium(III)-Centered dendrimers
Ribierre, JC; Ruseckas, A; Knights, K; Staton, SV; Cumpstey, N; Burn, PL; Samuel, IDW
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 1 Article Number: 017402 (2008)

Ultrafast luminescence in Ir(ppy)(3)
Hedley, GJ; Ruseckas, A; Samuel, IDW
CHEMICAL PHYSICS LETTERS

Picosecond gain switching of an organic semiconductor optical amplifier
Amarasinghe, D; Ruseckas, A; Vasdekis, AE; Turnbull, GA; Samuel, IDW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 8 Article Number: 083305 (2008)
Temperature dependence of the triplet diffusion and quenching rates in films of an Ir(ppy)(3)-cored dendrimer
Ribierre, JC; Ruseckas, A; Samuel, IDW; Staton, SV; Burn, PL
PHYSICAL REVIEW B
Volume: 77 Issue: 8 Article Number: 085211 (2008)

Amplification of optical pulse sequences at a high repetition rate in a polymer slab waveguide (vol 91, art no 011105, 2007)
Amarasinghe, D; Ruseckas, A; Vasdekis, AE; Turnbull, GA; Samuel, IDW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 14 Article Number: 149902 (2008)

Influence of the dendron chemical structure on the photophysical properties of bisfluorene-cored dendrimers
Ribierre, JC; Ruseckas, A; Samuel, IDW; Barcena, HS; Burn, PL
JOURNAL OF CHEMICAL PHYSICS

Two-photon absorption and lasing in first-generation bisfluorene dendrimers
Tsiminis, G; Ribierre, JC; Ruseckas, A; Barcena, HS; Richards, GJ; Turnbull, GA; Burn, PL; Samuel, IDW
ADVANCED MATERIALS
Volume: 20 Issue: 10 (2008)

Exciton diffusion measurements in poly(3-hexylthiophene)
Shaw, PE; Ruseckas, A; Samuel, IDW
ADVANCED MATERIALS

Iridium metal complexes as an unambiguous probe of intramolecular vibrational redistribution
Hedley, GJ; Ruseckas, A; Liu, ZH; Lo, SC; Burn, PL; Samuel, IDW
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
Volume: 130 Issue: 36 Pages: 11842-11843 (2008)

Distance dependence of excitation energy transfer between spacer-separated conjugated polymer films
Shaw, PE; Ruseckas, A; Samuel, IDW
PHYSICAL REVIEW B
Volume: 78 Issue: 24 Article Number: 245201 (2008)

Hybrid Dendritic Molecules with Confined Chromophore Architecture to Tune Fluorescence Efficiency
Andre, P; Cheng, G; Ruseckas, A; van Mourik, T; Fruchtl, H; Crayston, JA; Morris, RE; et al.
JOURNAL OF PHYSICAL CHEMISTRY B

Thickness Dependence of the Fluorescence Lifetime in Films of Bisfluorene-Cored Dendrimers
Ribierre, JC; Ruseckas, A; Shaw, PE; Barcena, HS; Burn, PL; Samuel, IDW
JOURNAL OF PHYSICAL CHEMISTRY C
An organic semiconductor laser on silicon - art. no. 699607
Vasdekis, AE; Moore, SA; Ruseckas, A; Krauss, TF; Samuel, IDW; Turnbull, GA
SILICON PHOTONICS AND PHOTONIC INTEGRATED CIRCUITS, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Righini, GC, Honkanen, SK, Pavesi, L, Vivien, L (Eds)

Light-emitting diode pumped polymer lasers - art. no. 70511E
Turnbull, GA; Yang, Y; Shaw, P; Ruseckas, A; Samuel, IDW
'Proceedings of the 12th Conference on Organic Light Emitting Materials and Devices', AUG 10-12, 2008, San Diego, CA
ORGANIC LIGHT EMITTING MATERIALS AND DEVICES XII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), So, F, Adachi, C (Eds)

Ryderfors, L
Linus Ryderfors
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Salewski, M
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Salter, P
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Samuel, IDW
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20 records

Triplet exciton diffusion and phosphorescence quenching in Iridium(III)-Centered dendrimers
Ribierre, JC; Ruseckas, A; Knights, K; Staton, SV; Cumpstey, N; Burn, PL; Samuel, IDW
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 1 Article Number: 017402 (2008)
Ultrafast luminescence in Ir(ppy)(3)
Hedley, GJ; Ruseckas, A; Samuel, IDW
CHEMICAL PHYSICS LETTERS

Picosecond gain switching of an organic semiconductor optical amplifier
Amarasinghe, D; Ruseckas, A; Vasdekis, AE; Turnbull, GA; Samuel, IDW
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Volume: 92 Issue: 8 Article Number: 083305 (2008)

Temperature dependence of the triplet diffusion and quenching rates in films of an Ir(ppy)(3)-cored dendrimer
Ribierre, JC; Ruseckas, A; Samuel, IDW; Staton, SV; Burn, PL
PHYSICAL REVIEW B
Volume: 77 Issue: 8 Article Number: 085211 (2008)

Amplification of optical pulse sequences at a high repetition rate in a polymer slab waveguide
Amarasinghe, D; Ruseckas, A; Vasdekis, AE; Turnbull, GA; Samuel, IDW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 14 Article Number: 149902 (2008)

Electric field and temperature dependence of the hole mobility in a bis-fluorene cored dendrimer
Gambino, S; Samuel, IDW; Barcena, H; Burn, PL
ORGANIC ELECTRONICS

Quantitative analysis of multi-protein interactions using FRET: Application to the SUMO pathway
Martin, SF; Tatham, MH; Hay, RT; Samuel, IDW
PROTEIN SCIENCE

Influence of the dendron chemical structure on the photophysical properties of bisfluorene-cored dendrimers
Ribierre, JC; Ruseckas, A; Samuel, IDW; Barcena, HS; Burn, PL
JOURNAL OF CHEMICAL PHYSICS

Two-photon absorption and lasing in first-generation bisfluorene dendrimers
Tsiminis, G; Ribierre, JC; Ruseckas, A; Barcena, HS; Richards, GJ; Turnbull, GA; Burn, PL; Samuel, IDW
ADVANCED MATERIALS
Volume: 20 Issue: 10 (2008)

Non-radiative decay mechanisms in blue phosphorescent iridium(III) complexes
Harding, RE; Lo, SC; Burn, PL; Samuel, IDW
ORGANIC ELECTRONICS

Exciton diffusion measurements in poly(3-hexylthiophene)
Shaw, PE; Ruseckas, A; Samuel, IDW
ADVANCED MATERIALS
Iridium metal complexes as an unambiguous probe of intramolecular vibrational redistribution
Hedley, GJ; Ruseckas, A; Liu, ZH; Lo, SC; Burn, PL; Samuel, IDW
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
Volume: 130 Issue: 36 Pages: 11842-11843 (2008)

Photoinduced charge separation in poly(1,4-phenylenevinylene) derivatives studied by electron paramagnetic resonance
Thomsen, EA; Keeble, DJ; Lochab, B; Burn, PL; El-Mkami, H; Samuel, IDW
ORGANIC ELECTRONICS
Volume: 9 Issue: 5 Pages: 809-815 (2008)

Solution-Processible Phosphorescent Blue Dendrimers Based on Biphenyl-Dendrons and Fac-tris(phenyltriazolyl)iridium(III) Cores
Lo, SC; Bera, RN; Harding, RE; Burn, PL; Samuel, IDW
ADVANCED FUNCTIONAL MATERIALS

A rapid route to carbazole containing dendrons and phosphorescent dendrimers
Knights, KA; Stevenson, SG; Shipley, CP; Lo, SC; Olsen, S; Harding, RE; Gambino, S; et al.
JOURNAL OF MATERIALS CHEMISTRY

Distance dependence of excitation energy transfer between spacer-separated conjugated polymer films
Shaw, PE; Ruseckas, A; Samuel, IDW
PHYSICAL REVIEW B
Volume: 78 Issue: 24 Article Number: 245201 (2008)

Hybrid Dendritic Molecules with Confined Chromophore Architecture to Tune Fluorescence Efficiency
Andre, P; Cheng, G; Ruseckas, A; van Mourik, T; Fruchtl, H; Crayston, JA; Morris, RE; et al.
JOURNAL OF PHYSICAL CHEMISTRY B

Thickness Dependence of the Fluorescence Lifetime in Films of Bisfluorene-Cored Dendrimers
Ribierre, JC; Ruseckas, A; Shaw, PE; Barcena, HS; Burn, PL; Samuel, IDW
JOURNAL OF PHYSICAL CHEMISTRY C

An organic semiconductor laser on silicon - art. no. 699608
Vasdekis, AE; Moore, SA; Ruseckas, A; Krauss, TF; Samuel, IDW; Turnbull, GA
'Second Conference on Silicon Photonics and Photonic Integrated Circuits', APR 07-10, 2008, Strasbourg, FRANCE
SILICON PHOTONICS AND PHOTONIC INTEGRATED CIRCUITS, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Righini, GC, Honkanen, SK, Pavesi, L, Vivien, L (Eds)

Light-emitting diode pumped polymer lasers - art. no. 70511E
Turnbull, GA; Yang, Y; Shaw, P; Ruseckas, A; Samuel, IDW
'Second Conference on Organic Light Emitting Materials and Devices', AUG 10-12, 2008, San Diego, CA
ORGANIC LIGHT EMITTING MATERIALS AND DEVICES XII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), So, F, Adachi, C (Eds)
Current Research
My research concerns the physics of organic semiconductor materials and devices. Organic semiconductors are plastic-like materials combining novel semiconducting optoelectronic properties with simple fabrication and the scope to tune properties. My research ranges from fundamental studies of fluorescence and energy transfer in these materials to their applications in light-emitting diodes, lasers and solar cells. In addition I am developing biomedical applications of organic light-emitting diodes and fluorescence.”

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Ricardo Ignacio Santiago Prieto
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Irreducible finite-size effects in the surface free energy of NaCl crystals from crystal-nucleation data
Zykova-Timan, T; Valeriani, C; Sanz, E; Frenkel, D; Tosatti, E
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 3 Article Number: 036103 (2008)

Determination of phase diagrams via computer simulation: methodology and applications to water, electrolytes and proteins
Vega, C; Sanz, E; Abascal, ILF; Noya, EG
JOURNAL OF PHYSICS-CONDENSED MATTER
Volume: 20 Issue: 15 Article Number: 153101 (2008)

Gel formation in suspensions of oppositely charged colloids: Mechanism and relation to the equilibrium phase diagram
Sanz, E; Leunissen, ME; Fortini, A; van Blaaderen, A; Dijkstra, M
JOURNAL OF PHYSICAL CHEMISTRY B

Crystallization and gelation in colloidal systems with short-ranged attractive interactions
Fortini, A; Sanz, E; Dijkstra, M
PHYSICAL REVIEW E
Volume: 78 Issue: 4 Article Number: 041402 (2008)

Out-of-equilibrium processes in suspensions of oppositely charged colloids: liquid-to-crystal nucleation and gel formation
Sanz, E; Valeriani, C; Vissers, T; Fortini, A; Leunissen, ME; van Blaaderen, A; Frenkel, D; Dijkstra, M
JOURNAL OF PHYSICS-CONDENSED MATTER
Volume: 20 Issue: 49(Sp. Iss. SI) Article Number: 494247 (2008)
Savitski, V
Vasili Savitski
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Schael, AM
Anita Schael
Research Student
The University of Edinburgh
2 records

The SCUBA HAIf degree extragalactic survey (SHADES) - VII. Optical/IR photometry and stellar masses of submillimetre galaxies
Dye, S; Eales, SA; Aretxaga, I; Serjeant, S; Dunlop, JS; Babbedge, TSR; Chapman, SC; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Clarifying the nature of the brightest submillimetre sources: interferometric imaging of LH 850.02
Younger, JD; Dunlop, JS; Peck, AB; Ivison, RJ; Biggs, AD; Chapin, EL; Clements, DL; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Schaffer, B
Bernhard Schaffer
Researcher
University of Glasgow
3 records

Oxidation and diffusion processes during annealing of AlCrVN hard coatings
Franz, R; Neidhardt, J; Mitterer, C; Schaffer, B; Hutter, H; Kaindl, R; Sartory, B; et al.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A

Application of high-resolution EFTEM SI in an AEM
Schaffer, B; Grogger, W; Kothletiner, G; Hofer, F
ANALYTICAL AND BIOANALYTICAL CHEMISTRY

An Introduction to High-resolution EELS in Transmission Electron Microscopy
Grogger, W; Hofer, F; Kothletiner, G; Schaffer, B
TOPICS IN CATALYSIS

Scharinger, F
Florian Scharinger
Researcher
The University of Edinburgh
1 record

SPRINT: A new parallel framework for R
Hill, J; Hambley, M, Forster, T; Mewissen, M; Sloan, TM; Scharinger, F; Trew, A; Ghazal, P
BMC BIOINFORMATICS
Volume: 9 Article Number: 558 (2008)
Scheerschmidt, G
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Characterisation of an InAs Quantum Dot Semiconductor Disk Laser
Schlosser, P; Calvez, S; Hastie, JE; Jin, SR; Germann, TD; Strittmatter, A; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 1810-1811 (2008)

Schnetler, H
Hermine Schnetler
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2 records

An integrated systems approach for the modelling of infrared instruments for the next generation telescopes
Schnetler, H; Taylor, WD
MODELLING, SYSTEMS ENGINEERING, AND PROJECT MANAGEMENT FOR ASTRONOMY III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Angeli, GZ, Cullum, MJ (Eds)

Efficiency evaluation of proposed EAGLE target acquisition systems
Taylor, WD; Evans, C; Schnetler, H
MODELLING, SYSTEMS ENGINEERING, AND PROJECT MANAGEMENT FOR ASTRONOMY III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Angeli, GZ, Cullum, MJ (Eds)

Schofield, AB
Andrew Schofield
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5 records
Gelation of particles with short-range attraction
Lu, PJ; Zaccarelli, E; Ciulla, F; Schofield, AB; Sciortino, F; Weitz, DA
NATURE

Dynamics of drying in 3D porous media
Xu, L; Davies, S; Schofield, AB; Weitz, DA
PHYSICAL REVIEW LETTERS

The effect of curvature and topology on membrane hydrodynamics
Henle, ML; McGorty, R; Schofield, AB; Dinsmore, AD; Levine, AJ
EPL
Volume: 84 Issue: 4 Article Number: 048001 (2008)

Effects of shear induced crystallization on the rheology and ageing of hard sphere glasses
Koumakis, N; Schofield, AB; Petekidis, G
SOFT MATTER

Influence of particle composition and thermal cycling on bijel formation
White, KA; Schofield, AB; Binks, BP; Clegg, PS
JOURNAL OF PHYSICS-CONDENSED MATTER
Volume: 20 Issue: 49(Sp. Iss. SI) Article Number: 494223 (2008)

Scholz, A
Aleks Scholz
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3 records

Dusty disks at the bottom of the initial mass function
Scholz, A; Jayawardhana, R
ASTROPHYSICAL JOURNAL LETTERS
Volume: 672 Issue: 1 Pages: L49-L52 (2008)

IRAS 04325+2402C: A very low mass object with an edge-on disk
Scholz, A; Jayawardhana, R; Wood, K; Lafreniere, D; Schreyer, K; Doyon, R
ASTROPHYSICAL JOURNAL LETTERS

NTT follow-up observations of star cluster candidates from the FSR catalogue
Froebrich, D; Meusinger, H; Scholz, A
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Schulz, S
Sebastian Schulz
Research Student
University of St Andrews
Zero records
Potassium deficiency results in accumulation of ultra-high molecular weight poly-beta-hydroxybutyrate in a methane-utilizing mixed culture
Helm, J; Wendlandt, KD; Jechorek, M; Stottmeister, U
JOURNAL OF APPLIED MICROBIOLOGY

Near-simultaneous dual energy range EELS spectrum imaging
Scott, J; Thomas, PJ; MacKenzie, M; McFadzean, S; Wilbrink, J; Craven, AJ; Nicholson, WAP
ULTRAMICROSCOPY

Elemental Profiling of III-V MOSFET High-k Dielectric Gate Stacks Using EELS Spectrum Imaging
Longo, P; Craven, AJ; Scott, J; Holland, M; Thayne, I
MICROSCOPY OF SEMICONDUCTING MATERIALS 2007, SPRINGER PROCEEDINGS IN PHYSICS, Cullis, AG, Midgley, PA (Eds)
Scovell, P
Paul Scovell
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Scroggie, AJ
Andrew Scroggie
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All-optical delay line using semiconductor cavity solitons
Pedaci, F; Barland, S; Caboche, E; Genevet, P; Giudici, M; Tredicce, JR; Ackemann, T; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 1 Article Number: 011101 (2008)

A closed-system approach to quantum retrodiction in open systems
Scroggie, AJ; Jeffers, J
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS

Seed, T
Thomas Seed
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Zero records

Seitz, B
Bjoern Seitz
Academic
University of Glasgow
9 records

Cross sections for hard exclusive electroproduction of pi(+) mesons on a hydrogen target
Airapetian, A; Akopov, N; Akopov, Z; Aschenauer, EC; Augustyniak, W; Avetissian, A; et al.
PHYSICS LETTERS B
Volume: 659 Issue: 3 Pages: 486-492 (2008)

Evidence for a transverse single-spin asymmetry in leptoproduction of pi(+)pi(-) pairs
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 017 (2008)

Measurement of azimuthal asymmetries with respect to both beam charge and transverse target polarization in exclusive electroproduction of real photons
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 6 Article Number: 066 (2008)

Measurement of parton distributions of strange quarks in the nucleon from charged-kaon production in deep-inelastic scattering on the deuteron
Airapetian, A; Akopov, N; Akopov, Z; Andrus, A; Aschenauer, EC; Augustyniak, W; et al.
PHYSICS LETTERS B
Volume: 666 Issue: 5 Pages: 446-450 (2008)
Disc DIRC endcap detector for PANDA@FAIR
Schonmeier, P; Branford, D; Duren, M; Ehrenfried, M; Eyrich, W; Fohl, K; Hoek, M; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, ELSEVIER SCIENCE BV

Performance studies of microchannel plate PMTs in high magnetic fields
Lehmann, A; Britting, A; Eyrich, W; Pizzolotto, C; Teufel, A; Duren, M; Fohl, K; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, ELSEVIER SCIENCE BV

Radiation hardness study on fused silica
Hoek, M; Bennet, ED; Branford, D; Cowie, EN; Duren, M; Fohl, K; Glazier, D; et al.
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The barrel DIRC of the PANDA experiment
Schwarz, C; Bettoni, D; Branford, D; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
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The DIRC detectors of the (P)over-barANDA experiment at FAIR
Fohl, K; Bettoni, D; Branford, D; Britting, A; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, ELSEVIER SCIENCE BV

Senevirathne, B
Bethmini Senevirathne
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Serrels, KA
Keith Serrels
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Heriot-Watt University
5 records
Nanoscale optical microscopy in the vectorial focusing regime
Serrels, KA; Ramsay, E; Warburton, RJ; Reid, DT
NATURE PHOTONICS
Volume: 2 Issue: 5 Pages: 311-314 (2008)

Optical super-resolution with aperture-function engineering
Ramsay, E; Serrels, KA; Waddie, AJ; Taghizadeh, MR; Reid, DT
AMERICAN JOURNAL OF PHYSICS

Solid immersion lens applications for nanophotonic devices
Serrels, KA; Ramsay, E; Dalgarno, PA; Gerardot, BD; O'Connor, JA; Hadfield, RH; Warburton, RJ; Reid, DT
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021854 (2008)

Nanoscale Optical Microscopy in the Vectorial Focusing Regime
Serrels, KA; Ramsay, E; Warburton, RJ; Reid, DT
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 3299-3300 (2008)

Optical Super-Resolution through Aperture-Function Engineering and Vectorial-Focusing Effects
Serrels, KA; Ramsay, E; Waddie, AJ; Taghizadeh, MR; Reid, DT
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2870-2871 (2008)

Shanahan, L
Louise Shanahan
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Shanks, RP
Richard Shanks
Research Student
University of Strathclyde in Glasgow
2 records

A compact synchrotron radiation source driven by a laser-plasma wakefield accelerator
Schlenvoigt, HP; Haupt, K; Debus, A; Budde, F; Jackel, O; Pfotenhauer, S; Schwoerer, H; et al.
NATURE PHYSICS

Synchrotron radiation from laser-accelerated monoenergetic electrons
Schlenvoigt, HP; Haupt, K; Debus, A; Budde, F; Jaeckel, O; Pfotenhauer, S; et al.
IEEE TRANSACTIONS ON PLASMA SCIENCE
Shaw, M
Martin Shaw
Research Student
University of the West of Scotland
1 record

Study of photo-proton reactions driven by bremsstrahlung radiation of high-intensity laser generated electrons
Spohr, KM; Shaw, M; Galster, W; Ledingham, KWD; Robson, I.; Yang, JM; McKenna, P; et al.
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 043037 (2008)

Shaw, PE
Paul Shaw
Research Student
University of St Andrews
4 records

Exciton diffusion measurements in poly(3-hexylthiophene)
Shaw, PE; Ruseckas, A; Samuel, IDW
ADVANCED MATERIALS

Distance dependence of excitation energy transfer between spacer-separated conjugated polymer films
Shaw, PE; Ruseckas, A; Samuel, IDW
PHYSICAL REVIEW B
Volume: 78 Issue: 24 Article Number: 245201 (2008)

Thickness Dependence of the Fluorescence Lifetime in Films of Bisfluorene-Cored Dendrimers
Ribierre, JC; Ruseckas, A; Shaw, PE; Barcena, HS; Burn, PL; Samuel, IDW
JOURNAL OF PHYSICAL CHEMISTRY C

Light-emitting diode pumped polymer lasers - art. no. 70511E
Turnbull, GA; Yang, Y; Shaw, P; Ruseckas, A; Samuel, IDW
'Proceedings of the 12th Conference on Organic Light Emitting Materials and Devices', AUG 10-12, 2008, San Diego, CA
ORGANIC LIGHT EMITTING MATERIALS AND DEVICES XII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), So, F, Adachi, C (Eds)

Sheehan, C
Chris Sheehan
Research Student
University of St Andrews
Zero records

Sherlock, M
Mark Sherlock
Researcher
University of Strathclyde in Glasgow
2 records
Artificial collimation of fast-electron beams with two laser pulses
Robinson, APL; Sherlock, M; Norreys, PA
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 2 Article Number: 025002 (2008)

Plasma heating by intense electron beams in fast ignition
Sircombe, NJ; Bingham, R; Sherlock, M; Mendonca, T; Norreys, P
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 6 Article Number: 065005 (2008)

Shotter, A
Alan Shotter
Academic
The University of Edinburgh
3 records

Measurement of the two-halo neutron transfer reaction H-1(Li-11,Li-9)H-3 at 3A MeV
Tanihata, I; Alcorta, M; Bandyopadhyay, D; Bieri, R; Buchmann, L; Davids, B; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 19 Article Number: 192502 (2008)

Radio Active Beams at Triumf
Shotter, AC
CHANGING FACETS OF NUCLEAR STRUCTURE, Covello, A (Eds), World Scientific
Pages: 3-13 (2008)

Radioactive Beams from a High Powered ISOL System
Shotter, AC
'Proceedings of the Fourth International Conference', NOV 11-17, 2007, Sanibel Island, USA
FISSION AND PROPERTIES OF NEUTRON-RICH NUCLEI, Hamilton, JH; Ramayya, AV; Carter, HK (Eds), World Scientific
Pages: 135-144 (2008)

Sibbett, W
Wilson Sibbett
Academic
University of St Andrews
10 records

Spectroscopic and lasing performance of Tm3+-doped bulk TZN and TZNG tellurite glasses operating around 1.9 mu m
Fusari, F; Lagatsky, AA; Richards, B; Jha, A; Sibbett, W; Brown, CTA
OPTICS EXPRESS

Diode-pumped passively mode-locked Er, Yb: YAl3(BO3)(4) laser at 1.5-1.6 mu m
Lagatsky, AA; Kisel, VE; Troshin, AE; Tolstik, NA; Kuleshov, NV; Leonyuk, NI; et al.
OPTICS LETTERS

Generation of multiple Bessel beams for a biophotonics workstation
Cizmar, T; Kollarova, V; Tsampoula, X; Gunn-Moore, F; Sibbett, W; Bouchal, Z; Dholakia, K
OPTICS EXPRESS
Femtosecond pulse generation around 1500nm using a GaInNAsSb SESAM
Metzger, NK; Leburn, CG; Lagatsky, AA; Brown, CTA; Calvez, S; Burns, D; Sun, HD; et al.
OPTICS EXPRESS

Enhanced operation of femtosecond lasers and applications in cell transfection
Brown, CTA; Stevenson, DJ; Tsampoula, X; McDougall, C; Lagatsky, AA; Sibbett, W; et al.
JOURNAL OF BIOPHOTONICS
Volume: 1 Issue: 3 Pages: 183-199 (2008)

Generation of propagation-invariant light beams from semiconductor light sources
Sokolovskii, GS; Dudelev, VV; Losev, SN; Zolotovskaya, SA; Deryagin, AG; Kuchinskii, VI; et al.
TECHNICAL PHYSICS LETTERS
Volume: 34 Issue: 12 Pages: 1075-1078 (2008)

GaInNAs(Sb) surface normal devices
Calvez, S; Laurand, N; Sun, HD; Weda, J; Burns, D; Dawson, MD; Harkonen, A; et al.
'Proceedings of the 5th Workshop on Impurity Based Electroluminescent Devices and Materials (IBEDM 2006)', OCT 17-20, 2006, Nanki Shirahama, JAPAN
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, WILEY-V C H VERLAG GMBH

Compact quantum-dot-based ultrafast lasers - art. no. 68890K
Sibbett, W; Rafailov, EU
PHYSICS AND SIMULATION OF OPTOELECTRONIC DEVICES XVI, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Osinski, M, Henneberger, F, Edamatsu, K (Eds)

Femtosecond pulse generation at 1530nm using a GaInNAsSb SESAM
Leburn, CG; Metzger, NK; Brown, CT; Sibbett, W; Calvez, S; Burns, D; Sun, HD; et al.
'Proceedings of the Conference on Lasers and Electro-Optics (CLEO)', MAY 4, 2008, San Jose, California, USA
LASERS AND ELECTRO-OPTICS CONFERENCE 2008
Volume: 1-10 (2008)

High-power Kerr-lens mode-locked ytterbium lasers - art. no. 68712L
Bain, FM; Lagatsky, AA; Brown, CTA; Sibbett, W
SOLID STATE LASERS XVII: TECHNOLOGY AND DEVICES, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkson, WA, Hodgson, NH, Shori, RK (Eds)

Sikora, M
Mark Sikora
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The University of Edinburgh
Zero records

Simon, P
Patrick Simon
Researcher
The University of Edinburgh
1 record
First detection of galaxy-galaxy-galaxy lensing in RCS - A new tool for studying the matter environment of galaxy pairs
Simon, P; Watts, P; Schneider, P; Hoekstra, H; Gladders, MD; Yee, HKC; Hsieh, BC; Lin, H
ASTRONOMY & ASTROPHYSICS

Simpson, A
Alan Simpson
Researcher
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Simpson, F
Fergus Simpson
Researcher
The University of Edinburgh
Zero records

Sinclair, B
Bruce Sinclair
Academic
University of St Andrews
Zero records

Sinclair, G
Gary Sinclair
Research Student
University of St Andrews
1 record

Effective cross-Kerr Hamiltonian for a nonresonant four-level atom
Sinclair, GF; Korolkova, N
PHYSICAL REVIEW A
Volume: 77 Issue: 3 Article Number: 033843 (2008)

Skeldon, KD
Kenneth Skeldon
Researcher
University of Glasgow
1 record

An acoustic spanner and its associated rotational Doppler shift
Skeldon, KD; Wilson, C; Edgar, M; Padgett, MJ
NEW JOURNAL OF PHYSICS
Volume: 10 Article Number: 013018 (2008)

Skipsey, S
Sam Skipsey
Researcher
University of Glasgow
Zero records
Sloan, TM
Terence Sloan
Researcher
The University of Edinburgh
1 record

SPRINT: A new parallel framework for R
Hill, J; Hambley, M; Forster, T; Mewissen, M; Sloan, TM; Scharinger, F; Trew, A; Ghazal, P
BMC BIOINFORMATICS
Volume: 9 Article Number: 558 (2008)

Slobinsky, D
Demian Slobinsky
Research Student
University of St Andrews
Zero records

Smirne, G
Giuseppe Smirne
Researcher
University of St Andrews
Zero records

Current Research
After graduating in Physics in 2000 from the University of Pisa, Italy, I won a one year scholarship to work on cold Rubidium molecules at the Italian national research council (CNR). In 2001, I moved to Oxford for my doctoral studies on Bose-Einstein Condensation, obtaining a DPhil in Physics from the University of Oxford in 2005. I worked in Oxford as a postdoctoral researcher for 3 years on the manipulation of Bose Einstein Condensates using Spatial Light Modulators, before joining the University of St Andrews in March 2008 as a SUPA Advanced Fellow, to work to the formation of a quantum degenerate Bose-Fermi mixture.

Smith, A
Antony Smith
Research Student
University of Strathclyde in Glasgow
1 record

GaN diode-pumping of red semiconductor disk laser
Smith, A; Hastie, JE; Foreman, HD; Leinonen, T; Guina, M; Dawson, MD
ELECTRONICS LETTERS

Smith, AM
Alexis Smith
Research Student
University of St Andrews
1 record

WASP-3b: a strongly irradiated transiting gas-giant planet
Pollacco, D; Skillen, I; Cameron, AC; Loeillet, B; Stempels, HC; Bouchy, F; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Volume: 385 Issue: 3 Pages: 1576-1584 (2008)
Smith, G
Graham Smith
Academic
University of St Andrews
Zero records

Smith, JF
John Smith
Researcher
University of the West of Scotland
2 records

Short-lived isomers in Rb-94
Tsekhanovich, I; Simpson, GS; Urban, W; Dare, JA; Jolie, J; Linnemann, A; Orlandi, R; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 011301 (2008)

Spectroscopy of neutron-rich Mn59-63 isotopes
Valiente-Dobon, JJ; Lenzi, SM; Freeman, SJ; Lunardi, S; Smith, JF; Gottardo, A; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 2 Article Number: 024302 (2008)

Smith, L
Lorna Smith
Researcher
The University of Edinburgh
1 record

Ligand discovery on massively parallel systems
Shave, SR; Taylor, P; Walkinshaw, M; Smith, L; Hardy, J; Trew, A
IBM JOURNAL OF RESEARCH AND DEVELOPMENT

Smith, R
Rachel Smith
Research Student
The University of Edinburgh
1 record

The nature of mid-infrared excesses from hot dust around Sun-like stars
Smith, R; Wyatt, MC; Dent, WRF
ASTRONOMY & ASTROPHYSICS
Volume: 485 Issue: 3 Pages: 897-915 (2008)

Smith, RJ
Rowan Smith
Research Student
University of St Andrews
1 record

The structure of molecular clouds and the universality of the clump mass function
Smith, RJ; Clark, PC; Bonnell, IA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
Sneddon, P  
Peter Sneddon  
Academic  
University of Glasgow  
Zero records  

Current Research  
My work as the first University Teacher appointed to the Department of Physics and Astronomy at the University of Glasgow focuses on the development and improvement of new teaching techniques for Physics and Astronomy. Whilst the underlying science does not change, it is vital that the methods used to teach that science are kept up to date. Otherwise we risk losing the interest of students. My particular focus has been on the complete renovation of our first year undergraduate teaching laboratory and the implementation of Peer-to-Peer tutorials, where honours students teach the first and second years.

Snowdon, JF  
John Snowdon  
Academic  
Heriot-Watt University  
1 record  

Design and construction of the high-speed optoelectronic memory system demonstrator  
Barbieri, R; Benabes, P; Bierhoff, T; Caswell, JJ; Gauthier, A; Jahns, J; Jarczynski, M; et al.  
APPLIED OPTICS  

Sobral, D  
David Sobral  
Research Student  
The University of Edinburgh  
Zero records  

Sokhan, D  
Daria Sokhan  
Research Student  
The University of Edinburgh  
9 records  

Cross sections and beam asymmetries for (e) over-right-arrow p -> en pi(+) in the nucleon resonance region for 1.7 <= Q(2) <= 4.5 GeV2  
Park, K; Burkert, VD; Kim, W; Aznauryan, IG; Minehart, R; Smith, LC; Joo, K; et al.  
PHYSICAL REVIEW C  
Volume: 77 Issue: 1 Article Number: 015208 (2008)

Bayesian analysis of pentaquark signals from CLAS data  
Ireland, DG; McKinnon, B; Protopopescu, D; Ambrozewicz, P; Anghinolfi, M; Asryan, G; et al.  
PHYSICAL REVIEW LETTERS  
Volume: 100 Issue: 5 Article Number: 052001 (2008)

Measurement of deeply virtual compton scattering beam-spin asymmetries  
Girod, FX; Niyazov, RA; Avakian, H; Ball, J; Bedlinskiy, I; Burkert, VD; De Masi, R; et al.  
PHYSICAL REVIEW LETTERS  
Volume: 100 Issue: 16 Article Number: 162002 (2008)
Measurement of ep -> ep pi(0) beam spin asymmetries above the resonance region
De Masi, R; Garcon, M; Zhao, B; Amaryan, MJ; Ambrozewicz, P; Anghinolfi, M; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 4 Article Number: 042201 (2008)

Polarized structure function sigma(')(LT) for H-1((e)over-right-arrow,e(')K(+))Lambda in the nucleon resonance region
Nasseripour, R; Raue, BA; Carman, DS; Ambrozewicz, P; Amaryan, MJ; Anciant, E; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 6 Article Number: 065208 (2008)

Light vector mesons in the nuclear medium
Wood, MH; Nasseripour, R; Weygand, DP; Djalali, C; Tur, C; Mosel, U; Muehlich, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015201 (2008)

Electroproduction of phi(1020) mesons at 1.4 <= Q(2) <= 3.8 GeV2 measured with the CLAS spectrometer
Santoro, JP; Smith, ES; Garcon, M; Guidal, M; Laget, JM; Weiss, C; Adams, G; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 2 Article Number: 025210 (2008)

Electroexcitation of the Roper resonance for 1.7 < Q(2)< 4.5 GeV2 in ep -> en pi(+) 
Aznauryan, IG; Burkert, VD; Kim, W; Park, K; Adams, G; Amaryan, MJ; Ambrozewicz, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045209 (2008)

First measurement of target and double spin asymmetries for ep -> ep pi(0) in the nucleon resonance region above the Delta(1232)
Biselli, AS; Burkert, VD; Amaryan, MJ; Asryan, G; Avakian, H; Bagdasaryan, H; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045204 (2008)

Sokolov, DA
Dmitry Sokolov
Researcher
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4 records

Crystalline electric fields and the magnetic ground state of the Heusler intermetallic YbRh2Pb
Sokolov, DA; Kim, MS; Aronson, MC; Henderson, C; Stephens, PW
PHYSICAL REVIEW B
Volume: 77 Issue: 17 Article Number: 174401 (2008)

Crystal Growth, Structure, and Physical Properties of Ln(2)MGa(12) (Ln = La, Ce; M = Ni, Cu)
Cho, JY; Millican, JN; Capan, C; Sokolov, DA; Moldovan, M; Karki, AB; Young, DP; Aronson, MC; Chan, JY
CHEMISTRY OF MATERIALS

High pressure synthesis of late rare earth RFeAs(O,F) superconductors; R = Tb and Dy
Bos, JWG; Penny, GBS; Rodgers, JA; Sokolov, DA; Huxley, AD; Attfield, JP
CHEMICAL COMMUNICATIONS
Issue: 31 Pages: 3634-3635 (2008)
Elastic neutron scattering in quantum critical antiferromagnet Cr0.963V0.037
Sokolov, DA; Aronson, MC; Strycker, GL; Lumsden, MD; Nagler, SE; Erwin, R
Proceedings of the International Conference on Strongly Correlated Electron Systems (SCES 2007),
MAY 13-18, 2007, Houston, TX
PHYSICA B-CONDENSED MATTER
Volume: 403 Issue: 5-9 Pages: 1276-1278 (2008)

Soler, FJP
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Large-angle production of charged pions by 3 GeV/c-12 GeV/c protons on carbon, copper and tin targets
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Robbins, S; Soler, FJP; et al.
EUROPEAN PHYSICAL JOURNAL C
Volume: 53 Issue: 2 Pages: 177-204 (2008)

A precise measurement of the muon neutrino-nucleon inclusive charged current cross section off an isoscalar target in the energy range 2.5 < E-ν < 40 GeV by NOMAD
Wu, Q; Mishra, SR; Godley, A; Petti, R; Alekhin, S; Astier, P; Autiero, D; et al.
PHYSICS LETTERS B

Large-angle production of charged pions by 3-12.9 GeV/c protons on beryllium, aluminium and lead targets
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Soler, FJP; Goessling, C; et al.
EUROPEAN PHYSICAL JOURNAL C
Volume: 54 Issue: 1 Pages: 37-60 (2008)

Absolute momentum calibration of the HARP TPC
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Soler, FJP; Gossling, C; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: P04007 (2008)

Large-angle production of charged pions with 3-12.9 GeV/c incident protons on nuclear targets
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Soler, FJP; Gossling, C; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 5 Article Number: 055207 (2008)

Measurement of the production cross-sections of π(+/-) in p-C and π(+/-)C interactions at 12 GeV/c
Catanesi, MG; Radicioni, E; Edgecock, R; Ellis, M; Robbins, S; Soler, FJP; et al.
ASTROPARTICLE PHYSICS

The LHCb Detector at the LHC
Alves, AA; Andrade, LM; Barbosa, AF; Bediaga, I; Cernicchiaro, G; Guerrer, G; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08005 (2008)
Flux measurement at a Neutrino Factory Near Detector for neutrino oscillations
Laing, A; Soler, FJP
Proceedings of the 9th International Workshop on Neutrino Factories, Superbeams and Betabeams',
AUG 06-11, 2007, Okayama, JAPAN
NEUTRINO FACTORIES, SUPERBEAMS AND BETABEAMS, AIP CONFERENCE PROCEEDINGS, Yasuda, O, Ohmori, C, Mondal, N (Eds)

Measurement of particle production from the MICE target
Soler, FJP; Walaron, K; Booth, C; Carson, M; Hodgson, P; Howlett, L; Smith, R; et al.
Proceedings of the 9th International Workshop on Neutrino Factories, Superbeams and Betabeams',
AUG 06-11, 2007, Okayama, JAPAN
NEUTRINO FACTORIES, SUPERBEAMS AND BETABEAMS, AIP CONFERENCE PROCEEDINGS, Yasuda, O, Ohmori, C, Mondal, N (Eds)

Song, SG
Shigeng Song
Researcher
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2 records

Effect of the oxygen flow on the properties of ITO thin films deposited by ion beam assisted deposition (IBAD)
Meng, LJ; Gao, JS; Silva, RA; Song, SG
THIN SOLID FILMS

An in-situ investigation of the surface oxidation of ultra-thin films of Ni and Hf - art. no. 710120
Song, SG; Placido, F
Proceedings of the Conference on Advances in Optical Thin Films III', SEP 02-03, 2008, Glasgow, SCOTLAND
ADVANCES IN OPTICAL THIN FILMS III, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Kaiser, N, Lequime, M, Macleod, HA (Eds)

Sorazu, B
Borja Sorazu
Researcher
University of Glasgow
6 records

The detection of ultrasound using fiber-optic sensors
Culshaw, B; Thursby, G; Betz, D; Sorazu, B
IEEE SENSORS JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS
Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Techniques in the optimization of length sensing and control systems for a three-mirror coupled cavity
Huttner, SH; Barr, BW; Taylor, JR; Plissi, MV; Sorazu, B; Strain, KA
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Current Research
My research interest focus on several aspects of advance interferometry for application to ground based gravitational wave detectors. And the characterization, in particular glitch analysis on the main data acquisition channels, of GEO 600 (German-British contribution to the first world-network of ground-based interferometric gravitational wave detectors).

Sparkes, A
Ailsa Sparkes
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Speirits, F
Fiona Speirits
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University of Glasgow
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Speirs, DC
David Speirs
Researcher
University of Strathclyde in Glasgow
7 records

Demonstration of auroral radio emission mechanisms by laboratory experiment
McConville, SL; Speirs, DC; Ronald, K; Phelps, ADR; Cross, AW; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074010 (2008)

Numerical simulation of auroral cyclotron maser processes
Speirs, DC; McConville, SL; Gillespie, KM; Ronald, K; Phelps, ADR; Cross, AW; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074011 (2008)
Axis-encircling electron beam generation using a smooth magnetic cusp for gyrodevices
He, W; Whyte, CG; Rafferty, EG; Cross, AW; Phelps, ADR; Ronald, K; Young, AR; et al.
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 12 Article Number: 121501 (2008)

Radio frequency resonator structure and diagnostic measurements for a laboratory simulation of Auroral Kilometric Radiation
Ronald, K; Speirs, DC; McConville, SL; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
PHYSICS OF PLASMAS
Volume: 15 Issue: 5 Article Number: 056503 (2008)

Electron beam measurements for a laboratory simulation of auroral kilometric radiation
Ronald, K; McConville, SL; Speirs, DC; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
'Proceedings of the 28th International Conference on Phenomena in Ionized Gases', JUL 15-20, 2007, Prague, CZECH REPUBLIC
PLASMA SOURCES SCIENCE & TECHNOLOGY
Volume: 17 Issue: 3 Article Number: 035011 (2008)

3D PiC code simulations for a laboratory experimental investigation of Auroral Kilometric Radiation mechanisms
Gillespie, KM; Speirs, DC; Ronald, K; McConville, SL; Phelps, ADR; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 12 Article Number: 124038 (2008)

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Spohr, K
Klaus Spohr
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University of the West of Scotland
3 records

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Current Research
In general, my research activities revolve around the application of plasma physics in astrophysical contexts. In particular I am interested in pair plasma dynamics in Pulsar magnetospheres and coherent plasma processes in dusty plasmas such as dust growth. Recently I have been researching plasma processes, such as particle acceleration, in the Earth's magnetosphere.

Steele, G
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David Stevenson
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*Enhanced operation of femtosecond lasers and applications in cell transfection*
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Stevenson, S
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Stewart, AI
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2 records
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Stewart, G
Graeme Stewart
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3 records

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Stratford, K
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2 records

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Kate Sugden
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Summers, HP
Hugh Summers
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Sun, J
Jinghua Sun
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Sutorius, E
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Suyal, H
Himanshu Suyal
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Szumlak, T
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9 records
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398
**Taghizadeh, MR**
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*Comparison of simulated quenching algorithms for design of diffractive optical elements*
Liu, JS; Caley, AJ; Waddie, AJ; Taghizadeh, MR
APPLIED OPTICS

*Diffractive optical elements for simultaneous operation in reflection and transmission*
Caley, AJ; Taghizadeh, MR
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*Design of diffractive optical elements for beam shaping of micro-pixellated LED light to a tightly focused spot*
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*Comparison of different simulation methods for multi plane, computer generated holograms - art. no. 69920M*
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Volume: 77 Issue: 7 Article Number: 075134 (2008)

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Tarbert, C
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Zero records

Teodoro, L
Luis Teodoro
Research Student
University of Glasgow
3 records
A cautionary note on cosmological magnetic fields
Teodoro, LFA; Diver, DA; Hendry, MA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Unplugging the universe: the neglected electromagnetic consequence of decoupling
Diver, DA; Teodoro, LFA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Peculiar velocities into the next generation: cosmological parameters from large surveys without bias from non-linear structure
Abate, A; Bridle, S; Teodoro, LFA; Warren, MS; Hendry, M
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Terry, J
Jonny Terry
Researcher
University of St Andrews
Zero records

Current Research
Research interests are advancing the science and technology of diode pumped solid state lasers and non-linear frequency conversion for application to real world problems. To this aim, contract research and development of an applied nature is undertaken in collaboration with UK companies.

Tesfagaber, G
Genet Tesfagaber
Research Student
University of Strathclyde in Glasgow
Zero records

Thi, WF
Wing-Fai David Thi
Researcher
The University of Edinburgh
2 records

A search for mid-infrared molecular hydrogen emission from protoplanetary disks
Carmona, A; van den Ancker, ME; Henning, T; Pavlyuchenkov, Y; Dullemond, CP; et al.
ASTRONOMY & ASTROPHYSICS

Dust in brown dwarfs and extra-solar planets - I. Chemical composition and spectral appearance of quasi-static cloud layers
Helling, C; Woitke, P; Thi, WF
ASTRONOMY & ASTROPHYSICS
Volume: 485 Issue: 2 Pages: 547-560 (2008)

Thijssen, J
Job Thijssen
Researcher
The University of Edinburgh
Zero records
Thompson, A
Alasdair Thompson
Research Student
The University of Edinburgh
Zero records

Thompson, D
David Thompson
Research Student
University of Glasgow
Zero records

Thompson, N
Neil Thompson
Research Student
University of Strathclyde in Glasgow
4 records

Mode locking in a free-electron laser amplifier
Thompson, NR; McNeil, BWJ
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 20 Article Number: 203901 (2008)

PULSE - A High-Repetition-Rate Linac Driver for X-ray FELs
McNeil, BWJ; Williams, PH; Militsyn, BL; Poole, MW; Thompson, NR; Owen, HL
'Proceedings of the Proceedings of EPAC08', 23 to 27 June 2008, Genoa, Italy
PROCEEDINGS OF EPAC08, GENOA, ITALY - 02 SYNCHROTRON LIGHT SOURCES AND FELS - A06 FREE ELECTRON LASERS

Noise and coherence properties of HHG for FEL seeding
Sheehy, B; Clarke, JA; Thompson, NR; McNeil, BWJ; Gordon, A
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Short wavelength regenerative amplifier free electron lasers
Dunning, DJ; McNeil, BWJ; Thompson, NR
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

Thomson, C
Craig Thomson
Researcher
The University of Edinburgh
1 record

Building Data Management Components for Business Applications
Thomson, C; Kavoussanakis, K; Trew, A
COLLABORATION AND THE KNOWLEDGE ECONOMY: ISSUES, APPLICATIONS, CASE STUDIES, Cunningham, P; Cunningham, M (Eds)
Thomson, CL
Caroline Thomson
Research Student
University of St Andrews
1 record

Line-narrowed, compact, and coherent source of widely tunable terahertz radiation
Stothard, DJM; Edwards, TJ; Walsh, D; Thomson, CL; Rae, CF; Dunn, MH; Browne, PG
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 14 Article Number: 141105 (2008)

Thomson, E
Edward Thomson
Research Student
University of Glasgow
Zero records

Thomson, I
Ian Thomson
Research Student
Heriot-Watt University
1 record

Development of edge pumped Yb : YAG planar waveguide lasers - art. no. 68710Q
Baker, HJ; Monjardin, JF; Thomson, I; Trela, N; RValera, JD; Hall, DR
SOLID STATE LASERS XVII: TECHNOLOGY AND DEVICES, PROCEEDINGS OF THE
SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkson, WA,
Hodgson, NH, Shori, RK (Eds)

Thomson, J
Jamie Thomson
Research Student
University of Strathclyde in Glasgow
Zero records

Thomson, RR
Robert Thomson
Researcher
Heriot-Watt University
8 records

Er : Yb-doped oxyfluoride silicate glass waveguide laser fabricated using ultrafast laser inscription
Psaila, ND; Thomson, RR; Bookey, HT; Chiodo, N; Shen, S; Osellame, R; Cerullo, G; Jha, A; Kar, AK
IEEE PHOTONICS TECHNOLOGY LETTERS

Shaping ultrafast laser inscribed optical waveguides using a deformable mirror
Thomson, RR; Bockelt, AS; Ramsay, E; Beecher, S; Greenaway, AH; Kar, AK; Reid, DT
OPTICS EXPRESS
Ultrashort laser ablation of PMMA and intraocular lenses
Serafetinides, AA; Makropoulou, M; Fabrikis, E; Spyratou, E; Bacharis, C; Thomson, RR; Kar, AK
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING

Efficient second harmonic generation in femtosecond laser written optical waveguides on periodically poled lithium niobate - art. no. 688112
Osellame, R; Chiodo, N; Lobino, M; Marangoni, M; Cerullo, G; Ramponi, R; Bookey, HT; et al.
'Proceedings of the Conference on Commercial and Biomedical Applications of Ultrafast Lasers VIII', JAN 20-23, 2008, San Jose, CA
COMMERCIAL AND BIOMEDICAL APPLICATIONS OF ULTRAFAST LASERS VIII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Neev, J, Nolte, S, Heisterkamp, A, Schaffer, CB (Eds)

Probing the I-4(13/2) level lifetime of Er-ions embedded in ultrafast laser inscribed waveguides
Thomson, RR; Psaila, ND; Bookey, HT; Kar, AK; Chiodo, N; Osellame, R; Cerullo, G; Shen, S; Jha, A

Ultra Broadband Gain from a Bismuth-doped Glass Waveguide Fabricated Using Ultrafast Laser Inscription
Psaila, N; Thomson, RR; Bookey, HT; Kar, AK; Fujimoto, Y; Nakatsuka, M; Chiodo, N; et al.

Ultrafast laser inscription of a three dimensional fan-out device for multicore fiber coupling applications
Thomson, RR; Bookey, HT; Psaila, ND; Fender, A; Campbell, S; Macpherson, WN; et al.

Waveguide Fabrication and Supercontinuum Generation in an Ultrafast Laser Inscribed Chalcogenide Glass Waveguide
Psaila, ND; Thomson, RR; Bookey, HT; Kar, AK; Chiodo, N; Osellame, R; Cerullo, G; Shen, S; Jha, A
Current Research

Robert Thomson is a post-doctoral research associate in the nonlinear optics group at Heriot Watt University. His research interests are currently centred on the physics and applications of ultrafast laser inscription. Ultrafast laser inscription is a novel fabrication technique that relies on the use of ultrafast laser pulses to modify the properties of dielectric materials in three-dimensions. Ultrafast laser inscription is an incredibly flexible fabrication technique and can be used to directly inscribe optical waveguides, opto-fluidics, microfluidics and micro-mechanics in a large variety of materials. Currently, Robert is investigating the applications of ultrafast laser inscription in fields ranging from nonlinear optics to astrophotonics.

Tilling, I
Ian Tilling
Research Student
The University of Edinburgh
1 record

Disc evolution and the relationship between L-acc and L-* in T Tauri stars
Tilling, I; Clarke, CJ; Pringle, JE; Tout, CA
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Titov, M
Mikhail Titov
Academic
Heriot-Watt University
2 records

Finite-temperature Bell test for quasiparticle entanglement in the Fermi sea
Hannes, WR; Titov, M
PHYSICAL REVIEW B
Volume: 77 Issue: 11 Article Number: 115323 (2008)

Thermopower oscillations in mesoscopic Andreev interferometers
Titov, M
PHYSICAL REVIEW B

Tittley, E
Eric Tittley
Researcher
The University of Edinburgh
1 record

Intergalactic HeII absorption in the spectra of quasars at redshifts 3.5 and 3.8, observed with the HST ACS prism
Zheng, W; Meiksin, A; Pifko, K; Anderson, SF; Hogan, CJ; Tittley, E; Kriss, GA; et al.
ASTROPHYSICAL JOURNAL

Toher, J
Jennifer Toher
Research Student
University of Glasgow
1 record
Report on the second Mock LISA data challenge
Babak, S; Baker, JG; Benacquista, MJ; Cornish, NJ; Crowder, J; Cutler, C; Larson, SL; et al.
CLASSICAL AND QUANTUM GRAVITY

Tojeiro, R
Rita Tojeiro
Research Student
The University of Edinburgh
3 records

Extragalactic constraints on the initial mass function
Wilkins, SM; Hopkins, AM; Trentham, N; Tojeiro, R
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Evidence of short-lived SN Ia progenitors
Aubourg, E; Tojeiro, R; Jimenez, R; Heavens, A; Strauss, MA; Spergel, DN
ASTRONOMY & ASTROPHYSICS

Physical Classification of Galaxies with MOPED/VESPA
Jimenez, R; Heavens, AF; Panter, B; Tojeiro, R
'Proceedings of the International Conference on Classification and Discovery in Large Astronomical Surveys', OCT 14-17, 2008, Ringberg Castle, GERMANY
CLASSIFICATION AND DISCOVERY IN LARGE ASTRONOMICAL SURVEYS, AIP CONFERENCE PROCEEDINGS, BailerJones, CAL (Eds)
Volume: 1082 Pages: 92-98 (2008)

Tokmakov, K
Kirill Tokmakov
Researcher
University of Glasgow
10 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY
Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Current Research
My scientific work at the Universities of Glasgow and Strathclyde involves experiments aimed at the detection of gravitational waves from astrophysical sources. I have participated in the fabrication and testing of the prototype monolithic mirror suspensions for advanced gravitational wave interferometers. I have also been involved in the design and construction of the sensors which will interrogate and damp the violin mode resonances in the silica suspension.

Torokoff, SIK
Kristel Torokoff
Academic
The University of Edinburgh
Zero records

Torralbo Campo, L
Lara Torralbo Campo
Research Student
University of St Andrews
Zero records
Current Research

After graduating in Physics in 2007 by the University of Cantabria, Spain, I moved to St Andrews to start my doctoral studies in the Quantum Degenerate gases group under the supervision of Donatella Cassettari. My research focuses on the cold atoms field and in particular in the construction of an experiment to study quantum degenerate Bose-Fermi mixtures.

Torres, DA
Diego Torres
Researcher
University of the West of Scotland
4 records

Extensive gamma-ray spectroscopy of normally and superdeformed structures in Cu-61(29)32
Andersson, LL; Rudolph, D; Johansson, EK; Torres, DA; Carlsson, BG; Ragnarsson, I; et al.
EUROPEAN PHYSICAL JOURNAL A
Volume: 36 Issue: 3 Pages: 251-278 (2008)

Prompt proton decay and deformed bands in Ni-56
Johansson, EK; Rudolph, D; Andersson, LL; Torres, DA; Ragnarsson, I; Andreoiu, C; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 6 Article Number: 064316 (2008)

Deformations and magnetic rotations in the Ni-60 nucleus
Torres, DA; Cristancho, F; Andersson, LL; Johansson, EK; Rudolph, D; Fahlander, C; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 5 Article Number: 054318 (2008)

Classification of Superdeformed Bands in the Mass A similar to 60 Region
Andersson, LL; Rudolph, D; Carlsson, BG; Fahlander, C; Johansson, EK; Ragnarsson, I; Torres, DA
NUCLEAR PHYSICS AND ASTROPHYSICS, AIP CONFERENCE PROCEEDINGS, Boztosun, I, Balantekin, AB (Eds)

Torres, ML
Maria Leilani Torres
Research Student
University of St Andrews
Zero records

Torrie, C
Calum Torrie
Researcher
University of Glasgow
10 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)
Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Townsend, D
David Townsend
Academic
Heriot-Watt University
Zero records

Townsend, N
Nichola Townsend
Research Student
University of Strathclyde in Glasgow
Zero records
Trager-Cowan, C  
Carol Trager-Cowan  
Academic  
University of Strathclyde in Glasgow  
5 records

*Luminescence spectroscopy of Eu-implanted zincblende GaN*  
Roqan, IS; O'Donnell, KP; Trager-Cowan, C; Hourahine, B; Martin, RW; Lorenz, K; et al.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS  

*Introduction*  
Trager-Cowan, C; Wilkinson, A  
JOURNAL OF MICROSCOPY-OXFORD  
Volume: 230 Issue: 3 Pages: 405-405 (2008)

*The effect of growth temperature on the luminescence and structural properties of GaN : Tm films grown by gas-source MBE*  
Roqan, IS; Nogales, E; O'Donnell, KP; Trager-Cowan, C; Martin, RW; Halambalakis, G; Briot, O  
JOURNAL OF CRYSTAL GROWTH  

*The Rank Prize Funds: Nurturing Advancement in Optoelectronics*  
Trager-Cowan, C  
MRS BULLETIN  

*Rare earth doping of III-nitride alloys by ion implantation*  
Lorenz, K; Alves, E; Roqan, IS; Martin, RW; Trager-Cowan, C; O'Donnell, KP; Watson, IM  
'Proceedings of the 2nd Workshop on Impurity Based Electroluminescent Devices and Materials (IBEDM 2006)'  
OCT 17-20, 2006, Nanki Shirahama, JAPAN  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE  

*Current Research*  
Carol is presently fascinated with the luminescence from and the crystallography of nitride semiconductors, the material from which commercial UV/blue semiconductor LEDs and laser diodes are now being produced. In collaboration with Angus Wilkinson, Department at Oxford University, Austin Day, Aunt Daisy Scientific Ltd, Gordon England, KE Developments and Aimo Winkelmann, Max-Planck-Institute for Microstructure Physics, she is working on new developments and novel applications of the electron beam techniques of electron backscatter diffraction, electron channelling contrast imaging and cathodoluminescence imaging. Nitride semiconductors from laboratories in the UK, Europe, USA and Japan are presently under study.

Trela, N  
Natalia Trela  
Research Student  
Heriot-Watt University  
1 record

*Development of edge pumped Yb : YAG planar waveguide lasers - art. no. 68710Q*  
Baker, HJ; Monjardin, JF; Thomson, I; Trela, N; RValera, JD; Hall, DR  
SOLID STATE LASERS XVII: TECHNOLOGY AND DEVICES, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Clarkson, WA, Hodgson, NH, Shori, RK (Eds)  
Tresca, O
Olivier Tresca
Research Student
University of Strathclyde in Glasgow
Zero records

Trew, A
Arthur Trew
Academic
The University of Edinburgh
4 records

Ligand discovery on massively parallel systems
Shave, SR; Taylor, P; Walkinshaw, M; Smith, L; Hardy, J; Trew, A
IBM JOURNAL OF RESEARCH AND DEVELOPMENT

Performance of a Lattice Quantum Chromodynamics kernel on the Cell processor
Spray, J; Hill, J; Trew, A
COMPUTER PHYSICS COMMUNICATIONS

SPRINT: A new parallel framework for R
Hill, J; Hambley, M; Forster, T; Mewissen, M; Sloan, TM; Scharinger, F; Trew, A; Ghazal, P
BMC BIOINFORMATICS
Volume: 9 Article Number: 558 (2008)

Building Data Management Components for Business Applications
Thomson, C; Kavoussanakis, K; Trew, A
COLLABORATION AND THE KNOWLEDGE ECONOMY: ISSUES, APPLICATIONS, CASE STUDIES, Cunningham, P; Cunningham, M (Eds)

Troitzsch, RZ
Raphael Troitzsch
Research Student
The University of Edinburgh
2 records

Molecular mechanisms of cryoprotection in aqueous proline: Light scattering and molecular dynamics simulations
Troitzsch, RZ; Vass, H; Hossack, WJ; Martyna, GJ; Crain, J
JOURNAL OF PHYSICAL CHEMISTRY B

A Simplified Model of Local Structure in Aqueous Proline Amino Acid Revealed by First-Principles Molecular Dynamics Simulations
Troitzsch, RZ; Tulip, PR; Crain, J; Martyna, GJ
BIOPHYSICAL JOURNAL

Tsampoula, X
Xanthi Tsampoula
Research Student
University of St Andrews
6 records
Enhanced operation of femtosecond lasers and applications in cell transfection
Brown, CTA; Stevenson, DJ; Tsampoula, X; McDougall, C; Lagatsky, AA; Sibbett, W; et al.
JOURNAL OF BIOPHOTONICS
Volume: 1 Issue: 3 Pages: 183-199 (2008)

Generation of multiple Bessel beams for a biophotonics workstation
Cizmar, T; Kollarova, V; Tsampoula, X; Gunn-Moore, F; Sibbett, W; Bouchal, Z; Dholakia, K
OPTICS EXPRESS

Fibre based cellular transfection
Tsampoula, X; Taguchi, K; Cizmar, T; Garces-Chavez, V; Ma, N; Mohanty, S; Mohanty, K; et al.
OPTICS EXPRESS

Enhanced optical micromanipulation and transfection of cells using femtosecond lasers.
Brown, CTA; Tsampoula, X; Stevenson, D; McDougall, C; Gunn-Moore, FJ; Dholakia, K
2008 DIGEST OF THE LEOS SUMMER TOPICAL MEETINGS, Digest of the LEOS Summer Topical Meetings
Volume: Pages: 75-76 (2008)

Femtosecond cellular transfection using a non-diffracting beam - art. no. 68541L
Tsampoula, X; Garces-Chavez, V; Comrie, M; Stevenson, DJ; Agate, B; Brown, CTA; et al.
Proceedings of the Conference on Optical Interactions with Tissue and Cells XIX', JAN 21-23, 2008, San Jose, CA
OPTICAL INTERACTIONS WITH TISSUE AND CELLS XIX, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Jacques, SL, Roach, WP, Thomas, RJ (Eds)

Optical trapping and optical micromanipulation: generation and control of multiple Bessel beams for optical micromanipulation - art. no. 70380Q
Cizmar, T; Kollarova, V; Tsampoula, X; Gunn-Moore, F; Bouchal, Z; Dholakia, K
Proceedings of the Conference on Optical Trapped and Optical Micromanipulation V', AUG 10-13, 2008, San Diego, CA
OPTICAL TRAPPING AND OPTICAL MICROMANIPULATION V, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Dholakia, K, Spalding, GC (Eds)

Current Research
My current work focuses on dispersion measurement and pre-compensation in microscope based photoporation systems by means of a MIIPS (Multiphoton Intrapulse Interference Phase Scan) pulse shaper. In addition, I investigate the spatiotemporal properties of quasi-Bessel beams as a function of pulse duration.

Tsimplinis, G
Georgios Tsiminis
Research Student
University of St Andrews
2 records

In situ micro- and macro-Raman investigation of the redox couple behavior in DSSCS
Kontos, AG; Stergiopoulos, T; Tsiminis, G; Raptis, YS; Falaras, P
INORGANICA CHIMICA ACTA
Volume: 361 Issue: 3 Pages: 761-768 (2008)
Two-photon absorption and lasing in first-generation bisfluorene dendrimers
Tsiminis, G; Ribierre, JC; Ruseckas, A; Barcena, HS; Richards, GJ; Turnbull, GA; Burn, PL; Samuel, IDW
ADVANCED MATERIALS
Volume: 20 Issue: 10 (2008)

Tulip, P
Paul Tulip
Researcher
The University of Edinburgh
2 records

Theory of electronic transport in random alloys with short-range order: Korringa-Kohn-Rostoker nonlocal coherent potential approximation
Tulip, PR; Staunton, JB; Lowitzer, S; Kodderitzsch, D; Ebert, H
PHYSICAL REVIEW B
Volume: 77 Issue: 16 Article Number: 165116 (2008)

A Simplified Model of Local Structure in Aqueous Proline Amino Acid Revealed by First-Principles Molecular Dynamics Simulations
Troitzsch, RZ; Tulip, PR; Crain, J; Martyna, GJ
BIOPHYSICAL JOURNAL

Turnbull, GA
Graham Turnbull
Academic
University of St Andrews
6 records

Picosecond gain switching of an organic semiconductor optical amplifier
Amarasinghe, D; Ruseckas, A; Vasdekis, AE; Turnbull, GA; Samuel, IDW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 8 Article Number: 083305 (2008)

Amplification of optical pulse sequences at a high repetition rate in a polymer slab waveguide (vol 91, art no 011105, 2007)
Amarasinghe, D; Ruseckas, A; Vasdekis, AE; Turnbull, GA; Samuel, IDW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 14 Article Number: 149902 (2008)

Hybrid optoelectronics: A polymer laser pumped by a nitride light-emitting diode
Yang, Y; Turnbull, GA; Samuel, IDW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 16 Article Number: 163306 (2008)

Two-photon absorption and lasing in first-generation bisfluorene dendrimers
Tsiminis, G; Ribierre, JC; Ruseckas, A; Barcena, HS; Richards, GJ; Turnbull, GA; Burn, PL; Samuel, IDW
ADVANCED MATERIALS
Volume: 20 Issue: 10 (2008)
An organic semiconductor laser on silicon - art. no. 699609
Vasdekis, AE; Moore, SA; Ruseckas, A; Krauss, TF; Samuel, IDW; Turnbull, GA
SILICON PHOTONICS AND PHOTONIC INTEGRATED CIRCUITS, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Righini, GC, Honkanen, SK, Pavesi, L, Vivien, L (Eds)

Light-emitting diode pumped polymer lasers - art. no. 70511E
Turnbull, GA; Yang, Y; Shaw, P; Ruseckas, A; Samuel, IDW
'Proceedings of the 12th Conference on Organic Light Emitting Materials and Devices', AUG 10-12, 2008, San Diego, CA
ORGANIC LIGHT EMITTING MATERIALS AND DEVICES XII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), So, F, Adachi, C (Eds)

Current Research
Graham Turnbull’s research interests are focused on optical applications of soft materials, notably organic semiconductor photonics and optofluidics. His current research projects include diode-pumped polymer lasers and their applications, nonlinear optics in organic semiconductors, soft lithography, and polymer and liquid micro-optics.

Turnbull, S
Susan Turnbull
Research Student
University of Glasgow
Zero records

Turton, DA
David Turton
Researcher
University of Strathclyde in Glasgow
2 records

Glasslike behavior in aqueous electrolyte solutions
Turton, DA; Hunger, J; Heftler, G; Buchner, R; Wynne, K
JOURNAL OF CHEMICAL PHYSICS

Structural relaxation in the hydrogen-bonding liquids N-methylacetamide and water studied by optical Kerr effect spectroscopy
Turton, DA; Wynne, K
JOURNAL OF CHEMICAL PHYSICS

Twaddle, M
Mary Twaddle
Research Student
University of Glasgow
Zero records
Enhancement of laser performance using an intracavity deformable membrane mirror
Lubeigt, W; Valentine, G; Burns, D
OPTICS EXPRESS

Irreducible finite-size effects in the surface free energy of NaCl crystals from crystal-nucleation data
Zykova-Timan, T; Valeriani, C; Sanz, E; Frenkel, D; Tosatti, E
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 3 Article Number: 036103 (2008)

Homogeneous nucleation under shear in a two-dimensional Ising model: Cluster growth, coalescence, and breakup
Allen, RJ; Valeriani, C; Tanase-Nicola, S; ten Wolde, PR; Frenkel, D
JOURNAL OF CHEMICAL PHYSICS
State-of-the-art models for the phase diagram of carbon and diamond nucleation
Ghiringhelli, LM; Valeriani, C; Los, JH; Meijer, EJ; Fasolino, A; Frenkel, D
MOLECULAR PHYSICS

Nucleation in a Sheared Ising Model: Effects of External Field
Allen, RJ; Valeriani, C; Tanase-Nicola, S
'Proceedings of the International Symposium on Non-Equilibrium Soft Matter', JUN 02-05, 2008,
Kyoto, JAPAN
PROGRESS OF THEORETICAL PHYSICS SUPPLEMENT
Issue: 175 Pages: 144-153 (2008)

Out-of-equilibrium processes in suspensions of oppositely charged colloids: liquid-to-crystal nucleation and gel formation
Sanz, E; Valeriani, C; Vissers, T; Fortini, A; Leunissen, ME; van Blaaderen, A; Frenkel, D; Dijkstra, M
'Proceedings of the 5th Annual Meeting of the International-Society-for-Imaging-in-the-Eye', MAY 04,
2007, Ft Lauderdale, FL
JOURNAL OF PHYSICS-CONDENSED MATTER
Volume: 20 Issue: 49(Sp. Iss. SI) Article Number: 494247 (2008)

Current Research
My background is in computer simulations aimed at understanding phenomena in soft and condensed matter such as crystal nucleation in simple fluids, covalent-bonded systems, ionic systems, cavitation and glass formation. This can be achieved using Monte Carlo, Molecular Dynamics or Brownian Dynamics simulations together with, when needed, numerical simulation techniques to study rare events (such as Forward Flux Sampling). More recently, I have been interested in studying aggregation of active colloids and bacteria.

Valles Gomez, V
Victor Valles Gomez
Research Student
Heriot-Watt University
Zero records

van 't Zand, D
Danielle van 't Zand
Research Student
The University of Edinburgh
Zero records

van Veggel, AA
Marielle van Veggel
Researcher
University of Glasgow
1 record

Hydroxide catalysis bonding of silicon carbide
van Veggel, AA; van den Ende, D; Bogenstahl, J; Rowan, S; Cunningham, W; Gubbels, GHM; Nijmeijer, H
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY
Vangeleyn, M
Matthieu Vangeleyn
Research Student
University of Strathclyde in Glasgow
Zero records

Venkataramana, V
Vikash Venkataramana
Research Student
University of St Andrews
Zero records

Vernier, A
Aline Vernier
Research Student
University of Glasgow
Zero records

Vetter, SL
Sharon Vetter
Research Student
University of Strathclyde in Glasgow
2 records

Short-wavelength GaInNAs/GaAs semiconductor disk lasers
Vetter, SL; Hastie, JE; Korpijarvi, VM; Puustinen, J; Guina, M; Okhotnikov, O; Calvez, S; Dawson, MD
ELECTRONICS LETTERS
Volume: 44 Issue: 18 Pages: 1069-1070 (2008)

Short-wavelength GaInNAs semiconductor disk lasers
Calvez, S; Hastie, JE; Vetter, SL; Dawson, MD; Korpijarvi, VM; Puustinen, J; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9, IEEE
Pages: 1802-1803 (2008)

Vieux, G
Gregory Vieux
Researcher
University of Strathclyde in Glasgow
Zero records

Vika, M
Marina Vika
Research Student
University of St Andrews
Zero records

Villalpando, I
Isaela Villalpando
Research Student
Heriot-Watt University
Zero records
Villaurrutia-Arenas, R
Rafael Villaurrutia-Arenas
Researcher
University of Glasgow
3 records

Electron backscatter diffraction mapping of herringbone domain structures in tetragonal piezoelectrics
Farooq, MU; Villaurrutia, R; MacLaren, I; Burnett, TL; Comyn, TP; Bell, AJ; Kungl, H; Hoffmann, MJ
JOURNAL OF APPLIED PHYSICS
Volume: 104 Issue: 2 Article Number: 024111 (2008)

Using EBSD and TEM-Kikuchi patterns to study local crystallography at the domain boundaries of lead zirconate titanate
Farooq, MU; Villaurrutia, R; MacLaren, I; Kungl, H; Hoffmann, MJ; Fundenberger, JJ; Bouzy, E
JOURNAL OF MICROSCOPY-OXFORD

Study of global and local crystallography at the domain boundaries of Lead Zirconate Titanate piezoelectric ceramics - art. no. 012012
Farooq, MU; Villaurrutia, R; MacLaren, I; Kungl, H; Hoffman, MJ; Fundenberger, JJ; Bouzy, E

Virmani, S
Shashank Virmani
Academic
University of Strathclyde in Glasgow
Zero records

Current Research
Current research: The field of quantum information aims to understand the limits to storing, retrieving, transmitting, and manipulating information in systems that obey the laws of quantum physics. Particularly quantum phenomena such as the uncertainty principle and quantum entanglement can often bring great advantages to our ability to process information. My research aims to understand the effects of noise on quantum information processing, as well as understanding the role that measurement and entanglement play in our understanding of quantum systems.

Voronov, A
Andrey Voronov
Researcher
University of the West of Scotland
Zero records

Waddie, AJ
Andrew Waddie
Researcher
Heriot-Watt University
8 records
Comparison of simulated quenching algorithms for design of diffractive optical elements
Liu, JS; Caley, AJ; Waddie, AJ; Taghizadeh, MR
APPLIED OPTICS

Light emitting polymer blends and diffractive optical elements in high-speed direct laser writing of microstructures
Suyal, H; Waddie, AJ; Mackintosh, AR; Kuehne, AJC; Taghizadeh, MR; Pethrick, RA; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094009 (2008)

Optical super-resolution with aperture-function engineering
Ramsay, E; Serrels, KA; Waddie, AJ; Taghizadeh, MR; Reid, DT
AMERICAN JOURNAL OF PHYSICS

Comparison of different simulation methods for multi plane, computer generated holograms - art. no. 69920M
Kampfe, T; Hudelist, F; Waddie, AJ; Taghizadeh, MR; Kley, EB; Tunnermann, A

Measurement of optical propagation losses in polymer waveguide structures using a "herringbone" waveguide structure - art. no. 69920Z
Waddie, AJ; Suyal, H; Busczynski, R; Taghizadeh, MR

Optical Super-Resolution through Aperture-Function Engineering and Vectorial-Focusing Effects
Serrels, KA; Ramsay, E; Waddie, AJ; Taghizadeh, MR; Reid, DT
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 2870-2871 (2008)

Photonic glass - novel method for fabrication of volume 2D photonic crystals - art. no. 71200M
Kujawa, I; Filipkowski, A; Pysz, D; Hudelist, F; Waddie, A; Stepien, R; Buczynski, R; Taghizadeh, M
'Proceedings of the 11th Conference on Optical Fibers and Their Applications', JAN 30-FEB 02, 2008, Bielowieza, POLAND
Simulation and optimisation methods for non-periodic subwavelength structures - art. no. 699210
Hudelist, F; Waddie, AJ; Busczynski, R; Taghizadeh, MR

Wady, P
Paul Wady
Research Student
University of the West of Scotland
Zero records

Walker, A
Alan Walker
Academic
The University of Edinburgh
2 records

First observation and measurement of the decay $K^{-}/-\rightarrow pi(+/-)e(+/-)e(+/-)gamma$
Batley, JR; Culling, AJ; Kalmus, G; Lazzeroni, C; Munday, DJ; Slater, MW; Wotton, SA; et al.
PHYSICS LETTERS B

New high statistics measurement of $K-e4$ decay form factors and $pi\,pi$ scattering phase shifts
Batley, JR; Culling, AJ; Kalmus, G; Lazzeroni, C; Munday, DJ; Slater, MW; Wotton, SA; et al.
EUROPEAN PHYSICAL JOURNAL C
Volume: 54 Issue: 3 Pages: 411-423 (2008)

Walker, AC
Andy Walker
Academic
Heriot-Watt University
5 records

Light emitting polymer blends and diffractive optical elements in high-speed direct laser writing of microstructures
Suyal, H; Waddie, AJ; Mackintosh, AR; Kuehne, AJC; Taghizadeh, MR; Pethrick, RA; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094009 (2008)

Integrated optical and electronic interconnect printed circuit board manufacturing
Selviah, DR; Fernandez, FA; Papakonstantinou, I; Wang, K; Bagshiah, H; Walker, AC; et al.
CIRCUIT WORLD
Volume: 34 Issue: 2 Pages: 21-26 (2008)

Direct Laser-Writing of Polymer Structures for Optical Interconnects on Backplane Printed Circuit Boards
Walker, AC; Suyal, H; McCarthy, A
'Proceedings of the 2nd Electronics System-Integration Technology Conference', SEP 01-04, 2008, Greenwich, ENGLAND
ESTC 2008: 2ND ELECTRONICS SYSTEM-INTEGRATION TECHNOLOGY CONFERENCE, VOLS 1 AND 2, PROCEEDINGS
Pages: 977-979 (2008)
Innovative Optical and Electronic Interconnect Printed Circuit Board Manufacturing Research

Selviah, DR; Hutt, DA; Walker, AC; Wang, K; Fernandez, FA; Conway, PP; Milward, D; et al. 'Proceedings of the 2nd Electronics System-Integration Technology Conference', SEP 01-04, 2008, Greenwich, ENGLAND

ESTC 2008: 2ND ELECTRONICS SYSTEM-INTEGRATION TECHNOLOGY CONFERENCE, VOLS 1 AND 2, PROCEEDINGS
Pages: 867-872 (2008)

UV Direct-Writing of Metals on Polyimide Substrates
Ng, JHG; Desmulliez, MPY; Lamponi, M; Moffat, BG; Walker, AC; McCarthy, A; et al. 'Proceedings of the 2nd Electronics System-Integration Technology Conference', SEP 01-04, 2008, Greenwich, ENGLAND

ESTC 2008: 2ND ELECTRONICS SYSTEM-INTEGRATION TECHNOLOGY CONFERENCE, VOLS 1 AND 2, PROCEEDINGS
Pages: 691-694 (2008)

Current Research
I run a small group, currently focussed on the uv-laser-writing of optical waveguides and their applications to electronics, providing optical interconnects within printed circuit boards and backplanes. Our current project is funded by the Innovative Electronics Manufacturing Research Centre run by Loughborough University.

Walsh, D
David Walsh
Research Student
University of St Andrews
1 record

Line-narrowed, compact, and coherent source of widely tunable terahertz radiation
Stothard, DJM; Edwards, TJ; Walsh, D; Thomson, CL; Rae, CF; Dunn, MH; Browne, PG
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 14 Article Number: 141105 (2008)

Walsh, R
Roberval Walsh
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Wang, K
Ke Wang
Research Student
University of Strathclyde in Glasgow
1 record

Optical energies of AlInN epilayers
Wang, K; Martin, RW; Amabile, D; Edwards, PR; Hernandez, S; Nogales, E; O'Donnell, KP; et al.
JOURNAL OF APPLIED PHYSICS
Volume: 103 Issue: 7 Article Number: 073510 (2008)

Wang, Y
Yue Wang
Research Student
University of St Andrews
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Wang, Z
Zhimin Wang
Research Student
University of the West of Scotland
1 record

Decay of a narrow and high spin Mg-24+Mg-24 resonance
Salsac, MD; Haas, F; Courtin, S; Algora, A; Beck, C; Beghini, S; Behera, BR; et al.
NUCLEAR PHYSICS A

Warburton, R
Ryan Warburton
Researcher
Heriot-Watt University
Zero records

Warburton, RJ
Richard Warburton
Academic
Heriot-Watt University
23 records

Optical pumping of a single hole spin in a quantum dot
Gerardot, BD; Brunner, D; Dalgarno, PA; Ohberg, P; Seidl, S; Kroner, M; Karrai, K; et al.
NATURE

Rabi splitting and ac-Stark shift of a charged exciton
Kroner, M; Lux, C; Seidl, S; Holleitner, AW; Karrai, K; Badolato, A; Petroff, PM; Warburton, RJ
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 3 Article Number: 031108 (2008)

The nonlinear Fano effect
Kroner, M; Govorov, AO; Remi, S; Biedermann, B; Seidl, S; Badolato, A; Petroff, PM; et al.
NATURE

Fiber-based confocal microscope for cryogenic spectroscopy
Hogele, A; Seidl, S; Kroner, M; Karrai, K; Schulhauser, C; Sqalli, O; Scrimgeour, J; Warburton, RJ
REVIEW OF SCIENTIFIC INSTRUMENTS
Volume: 79 Issue: 2 Article Number: 023709 (2008)

Entanglement on demand through time reordering
Avron, JE; Bisker, G; Gershoni, D; Lindner, NH; Meirom, EA; Warburton, RJ
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 12 Article Number: 120501 (2008)

Power law carrier dynamics in semiconductor nanocrystals at nanosecond timescales
Sher, PH; Smith, JM; Dalgarno, PA; Warburton, RJ; Chen, X; Dobson, PJ; Daniels, SM; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 9 Article Number: 101111 (2008)

Optical detection of single-electron spin resonance in a quantum dot
Kroner, M; Weiss, KM; Biedermann, B; Seidl, S; Manus, S; Holleitner, AW; Badolato, A; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 15 Article Number: 156803 (2008)
Resonant transmission spectroscopy on the p to p transitions of a charge tunable InGaAs quantum dot
Seidl, S; Kroner, M; Lux, C; Holleitner, AW; Karrai, K; Warburton, RJ; Badolato, A; Petroff, PM
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 15 Article Number: 153103 (2008)

Hole recapture limited single photon generation from a single n-type charge-tunable quantum dot
Dalgarno, PA; McFarlane, J; Brunner, D; Lambert, RW; Gerardot, BD; Warburton, RJ; et al.
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 19 Article Number: 193103 (2008)

Nanoscale optical microscopy in the vectorial focusing regime
Serrels, KA; Ramsay, E; Warburton, RJ; Reid, DT
NATURE PHOTONICS
Volume: 2 Issue: 5 Pages: 311-314 (2008)

Optically induced hybridization of a quantum dot state with a filled continuum
Dalgarno, PA; Ediger, M; Gerardot, BD; Smith, JM; Seidl, S; Kroner, M; Karrai, K; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 17 Article Number: 176801 (2008)

Coulomb interactions in single charged self-assembled quantum dots: Radiative lifetime and recombination energy
Dalgarno, PA; Smith, JM; McFarlane, J; Gerardot, BD; Karrai, K; Badolato, A; Petroff, PM; Warburton, RJ
PHYSICAL REVIEW B
Volume: 77 Issue: 24 Article Number: 245311 (2008)

Resonant two-color high-resolution spectroscopy of a negatively charged exciton in a self-assembled quantum dot
Kroner, M; Weiss, KM; Biedermann, B; Seidl, S; Holleitner, AW; Badolato, A; et al.
PHYSICAL REVIEW B
Volume: 78 Issue: 7 Article Number: 075429 (2008)

Optoelectronics - Electronics lightens up
Warburton, RJ
NATURE PHYSICS

Solid immersion lens applications for nanophotonic devices
Serrels, KA; Ramsay, E; Dalgarno, PA; Gerardot, BD; O'Connor, JA; Hadfield, RH; Warburton, RJ; Reid, DT
JOURNAL OF NANOPHOTONICS
Volume: 2 Article Number: 021854 (2008)

Resonant saturation laser spectroscopy of a single self-assembled quantum dot
Kroner, M; Remi, S; Hogele, A; Seidl, S; Holleitner, AW; Warburton, RJ; Gerardot, BD; et al.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES
Statistics of quantum dot exciton fine structure splittings and their polarization orientations
Seidl, S; Gerardot, BD; Dalgarno, PA; Kowalik, K; Holleitner, AW; Petroff, PM; Karrai, K; Warburton, RJ
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES

Growth and Characterization of ZnMgS and ZnMgS/ZnSe Quantum Wells grown on GaAs (100) by Using MBE
Bradford, C; Moug, RT; Curran, A; Thuau, D; Warburton, RJ; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

MBE Growth and Characterization of MgS-Rich Zinc-Blende ZnxMg1-xS1-ySey Alloys
Moug, RT; Bradford, C; Thuau, D; Curran, A; Warburton, RJ; Prior, KA
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

ZnSe Hybrid Microcavities Fabricated Using a MgS Release Layer: Strong & Weak Exciton-Photon Coupling
Curran, A; Barbour, RJ; Morrod, JK; Prior, KA; Kar, AK; Warburton, RJ
'Proceedings of the 13th International Conference on II-VI Compounds', SEP 10-14, 2007, Jeju City, SOUTH KOREA
JOURNAL OF THE KOREAN PHYSICAL SOCIETY

Entanglement on demand through time reordering
Avron, JE; Bisker, G; Gershoni, D; Lindner, NH; Meirom, EA; Warburton, RJ
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 3625-3626 (2008)

Investigation of Local Photon Detection Efficiency Distributions in Nanowire Superconducting Single-Photon Detectors
Baek, B; Gansen, EJ; Stevens, MJ; Mirin, RP; Nam, SW; Hadfield, RH; Dalgarno, PA; et al.
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 3233-3234 (2008)

Nanoscale Optical Microscopy in the Vectorial Focusing Regime
Serrels, KA; Ramsay, E; Warburton, RJ; Reid, DT
2008 CONFERENCE ON LASERS AND ELECTRO-OPTICS & QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE, VOLS 1-9
Pages: 3299-3300 (2008)
Ward, C
Charles Ward
Research Student
Heriot-Watt University
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Ward, H
Harry Ward
Academic
University of Glasgow
10 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)

A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY
Current Research

Current research activity is focused on aspects of precision interferometry for the planned spaceborne gravitational wave detector, LISA. This is an ambitious mission that will use picometre metrology over gigametere baselines to detect gravitational waves from a range of extreme astrophysical sources, from supermassive black holes to compact object binaries. LISA is planned for the 2020 timeframe, with a precursor technology demonstrator mission, LISA Pathfinder, due to launch around 2011/12. For Pathfinder Glasgow is currently building the optical interferometry flight hardware that will perform the key measurements of the mission. For LISA we are investigating measurement topologies and have also embarked upon building a prototype of the LISA interferometry core.

Watson, F
Fraser Watson
Research Student
University of Glasgow
Zero records

Watson, IM
Ian Watson
Academic
University of Strathclyde in Glasgow
14 records

Luminescence spectroscopy of Eu-implanted zincblende GaN
Rogan, IS; O’Donnell, KP; Trager-Cowan, C; Hourahine, B; Martin, RW; Lorenz, K; et al.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS

Photoluminescence of near-lattice-matched GaN/AlInN quantum wells grown on free-standing GaN and on sapphire substrates
Tan, LT; Martin, RW; O’Donnell, KP; Watson, IM; Wu, ZH; Ponce, FA
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 3 Article Number: 031907 (2008)

Studies of the photonic and optical-frequency phonon properties of arrays of selectively grown GaN micropyramids
Coquillat, D; d’Yerville, MLV; Kazan, M; Liu, C; Watson, IM; Edwards, PR; Martin, RW; et al.
JOURNAL OF APPLIED PHYSICS
Volume: 103 Issue: 4 Article Number: 044910 (2008)

Controlled integration of nanocrystals in inverted hexagonal nano-pits at the surface of light-emitting heterostructures
Pereira, SMD; Martins, MA; Trindade, T; Watson, IM; Zhu, D; Humphreys, CJ
ADVANCED MATERIALS

Optical energies of AlInN epilayers
Wang, K; Martin, RW; Amabile, D; Edwards, PR; Hernandez, S; Nogales, E; O’Donnell, KP; et al.
JOURNAL OF APPLIED PHYSICS
Volume: 103 Issue: 7 Article Number: 073510 (2008)
New light from hybrid inorganic-organic emitters
Belton, CR; Itskos, G; Heliotis, G; Stavrinou, PN; Lagoudakis, PG; Lupton, JM; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094006 (2008)

The 310-340nm ultraviolet light emitting diodes grown using a thin GaN interlayer on a high temperature AlN buffer
Wang, T; Lee, KB; Bai; J; Parbrook, PJ; Ranalli, F; Wang, Q; Airey, RJ; Cullis, AG; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094003 (2008)

Relaxation of compressively strained AlInN on GaN
Lorenz, K; Franco, N; Alves, E; Pereira, S; Watson, IM; Martin, RW; O'Donnell, KP
JOURNAL OF CRYSTAL GROWTH

Raman scattering and cathodoluminescence characterization of near lattice-matched InxAl1-xN epilayers
Cusco, R; Pastor, D; Hernandez, S; Artus, L; Martinez, O; Jimenez, J; Martin, RW; et al.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY
Volume: 23 Issue: 10 Article Number: 105002 (2008)

Rare earth doping of III-nitride alloys by ion implantation
Lorenz, K; Alves, E; Roqan, IS; Martin, RW; Trager-Cowan, C; O'Donnell, KP; Watson, IM
'Proceedings of the 2nd Workshop on Impurity Based Electroluminescent Devices and Materials (IBEDM 2006)', OCT 17-20, 2006, Nanki Shirahama, JAPAN
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, WILEY-V C H VERLAG GMBH

RBS analysis of InGaN/GaN quantum wells for hybrid structures with efficient Forster coupling
Barradas, NP; Alves, E; Pereira, S; Watson, IM
'Proceedings of the 18th International Conference on Ion Beam Analysis', SEP 23-28, 2007, Hyderabad, INDIA
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, ELSEVIER SCIENCE BV
Volume: 266 Issue: 8 Pages: 1402-1406 (2008)

Arrays of selectively grown GaN micro-pyramids: photonic and optical-frequency phonon properties - art. no. 69890J
Coquillat, D; d'Yerville, MLV; Arcade, P; Kazan, M; Liu, C; Watson, IM; Edwards, PR; et al.
'Proceedings of the Conference on Photonic Crystal Materials and Devices VIII', APR 08-10, 2008, Strasbourg, FRANCE
PHOTONIC CRYSTAL MATERIALS AND DEVICES VIII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), DeLaRue, RM, Lopez, C, Midrio, M, Viktorovitch, P (Eds)

Mechanisms of AlInN growth by MOVPE: modeling and experimental study
Yakovlev, EV; Lobanova, AV; Talalaev, RA; Watson, IM; Lorenz, K; Alves, E
'Proceedings of the 7th International Conference on Nitride Semiconductors (ICNS-7)', SEP 16-21, 2007, Las Vegas, NV
PHYSICA STATUS SOLIDI C - CURRENT TOPICS IN SOLID STATE PHYSICS, VOL 5, NO 6, PHYSICA STATUS SOLIDI C-CURRENT TOPICS IN SOLID STATE PHYSICS, Palacios, T, Jena, D (Eds)
Selective wet etching of AlInN layers for nitride-based MEMS and photonic device structures - art. no. 69930E
Watson, IM; Xiong, C; Gu, E; Dawson, MD; Rizzi, F; Bejtka, K; Edwards, PR; Martin, RW
MEMS, MOEMS, AND MICROMACHING III, PROCEEDINGS OF THE SOCIETY OF PHOTO- OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Urey, H (Eds), SPIE-INT SOC OPTICAL ENGINEERING

Current Research
Dr Watson’s research is centred on metal organic chemical vapour deposition of semiconductors from the GaN family, with a particular recent focus on the ternary alloy AlInN. This crystal growth technique can produce complex multilayer structures used in commercially important devices, including light-emitting diodes (LEDs). The emphasis of research projects is typically on producing more novel structures for detailed physical studies, to address issues including non-radiative transfer of excitations from InGaN quantum wells into secondary luminescent media. Dr Watson’s interests also extend to material processing and characterisation, encompassing, for example, photonic crystal LEDs.

Watson, JE
Jennifer Watson
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The University of Edinburgh

Measurement of the CP-violating asymmetries in B-0 -> K-s(0)pi(0) and of the branching fraction B-0 -> K-0 pi(0)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 012003 (2008)

Observation of the semileptonic decays B -> D- *tau(-)(nu)(over-bar(tau)) and evidence for B -> D tau(-)(nu)(over-bar(tau))
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 2 Article Number: 021801 (2008)

Search for B+->tau(+)nu decays with hadronic B tags
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 011107 (2008)

Search for the rare charmless hadronic decay B+-> a(0)(+)pi(0)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 011101 (2008)

Study of excited charm-strange baryons with evidence for new baryons Xi(c)(3055)(+) and Xi(c)(3123)(+)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 012002 (2008)

Study of resonances in exclusive B decays to (D)(over-bar(*))D((*)K)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 1 Article Number: 011102 (2008)
Observation of $B_0 \to K^{*-0}(K^{*0})$ and search for $B_0 \to K^{*-0}(K^{*0})$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 8 Article Number: 081801 (2008)

Search for CP violation in the decays $D_0 \to K^-K^+$ and $D_0 \to \pi^-(\pi^+)$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 6 Article Number: 061803 (2008)

Search for decay of $B_0$ mesons into $e^+(e^-), \mu^+(\mu^-)$ and $e^+(\mu^-)$ final states
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 3 Article Number: 032007 (2008)

Search for lepton flavor violating decays $\tau^{+/-} \to l^{+/-}\omega$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 7 Article Number: 071802 (2008)

Study of $(B)\to \Xi(c)(\Lambda)c(\bar{c})$ and $(B)\to \Lambda(c)(\bar{c}(c))$ decays at BABAR
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 3 Article Number: 031101 (2008)

Measurement of the $B \to X_s$ gamma branching fraction and photon energy spectrum using
the recoil method
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 5 Article Number: 051103 (2008)

Measurement of the branching fractions of exclusive $(B)\to D(\pi\pi\nu)$
decays in events with a fully reconstructed $b$ meson
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 15 Article Number: 151802 (2008)

Search for CPT and lorentz violation in $B_0$-$\bar{B_0}$ oscillations with dilepton events
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
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Time-dependent Dalitz plot analysis of $B_0 \to (DK00)K^+K^-\pi^+\pi^-$ decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 7 Article Number: 071102 (2008)

Measurements of $e^+e^- \to K^+K^-\eta, K^+K^0\pi^0, (K^0S\pi^0)K^0\pi^0$ cross sections
using initial state radiation events
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 9 Article Number: 092002 (2008)

431
Measurements of partial branching fractions for (B)\( \rightarrow X(u)l(\nu)\overline{v}\) and determination of vertical bar V-ub vertical bar
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 17 Article Number: 171802 (2008)

Searches for the decays B-0 \( \rightarrow l(\pm)\tau(\mp)\) and B+ \( \rightarrow l(+)\nu\) (l = e, μ) using hadronic tag reconstruction
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 9 Article Number: 091104 (2008)

Improved measurement of CP observables in B-+/-->(DCPK +/-)-K-0 decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 11 Article Number: 111102 (2008)

Measurement of the decay B- \( \rightarrow D^{(*)0}e(-)(nu)\overline{v}\) (e)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 23 Article Number: 231803 (2008)

Measurement of the tau(-) \( \rightarrow \eta\pi(-)\pi(+)\) branching fraction and a search for a second-class current in the tau(-) \( \rightarrow \eta '958\pi(-)\nu(tau)\) decay
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 11 Article Number: 112002 (2008)

Study of B \( \rightarrow X(3872)K, with X(3872) \rightarrow J/psi \pi(+)\pi(-)\)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 11 Article Number: 111101 (2008)

Evidence for CP violation in B-0 \( \rightarrow J/psi \pi(0)\) decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 2 Article Number: 021801 (2008)

Evidence for direct CP violation from Dalitz-plot analysis of B-+/---> K-+/--pi(-+)/pi(+) decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 1 Article Number: 012004 (2008)

Measurement of D-0-(D)over-bar(0) mixing using the ratio of lifetimes for the decays D-0 \( \rightarrow K-\pi(+), K-K+, and \pi(-)\pi(+)\)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 1 Article Number: 011105 (2008)

Measurement of the mass difference m(B-0)-m(B+)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 1 Article Number: 011103 (2008)
Observation of $B^+ \rightarrow b(1)(\pm)K(0)$ and search for $B$-meson decays to $b(1)(0)K(0)$ and $b(1)\pi(0)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 1 Article Number: 011104 (2008)

Observation of $B^+ \rightarrow \eta\rho(\pm)$ and search for $B^0$ decays to $\eta'$, $\eta\pi(0)$, $\eta'\pi(0)$, and $\omega\pi(0)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 1 Article Number: 011107 (2008)

Study of $B$-meson decays to $\eta K^c(\pm)$, $\eta c(2S)K^c(\pm)$, and $\eta c(\gamma)K^c(\pm)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 1 Article Number: 012006 (2008)

Improved measurement of the CKM angle $\gamma$ in $B^-/-\rightarrow(DK^{(*)}\pm)K^{(*)}$ decays with a Dalitz plot analysis of $D$ decays to $K-S(0)p(+)\pi(-)$ and $(KSK+K)^{-}K^{-}$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 034023 (2008)

Measurement of the branching fractions of the rare decays $B^0 \rightarrow D-s((*)\pm)\pi(\pm)$, $B^0 \rightarrow D-s((*)\pm)\rho(\pm)$, and $B^0 \rightarrow D-s((*)\pm)\eta(\pm)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 032005 (2008)

Measurement of the spin of the $X(1530)$ resonance
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 3 Article Number: 034008 (2008)

Observation of the bottomonium ground state in the decay $\Upsilon(3S)\rightarrow\gamma\eta(b)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

Observation of $Y(3940)\rightarrow J/\psi\omega$ in $B\rightarrow J/\psi\omega K$ at BABAR
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, J; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

Study of $B$ meson decays with excited $\eta$ and $\eta'$ mesons
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, J; Poireau, V; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

Dalitz plot analysis of the decay $B^{-}(0)((B)\overline{\psi}(0))^{-}\rightarrow K^{-}(-/+)\pi(0)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 052005 (2008)

Search for $B^{-} \rightarrow K^{*}K^{+}\*(-)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, J; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 051103 (2008)
Search for CP violation in neutral D meson Cabibbo-suppressed three-body decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 051102 (2008)

Study of the decay D-s(+)-> K(+)(+)-e(+)+v(e)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 5 Article Number: 051101 (2008)

Measurement of the branching fraction, polarization, and CP asymmetries in B-0 -
rho(0)rhop(0) decay, and implications for the CKM angle alpha
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 071104 (2008)

Measurement of the branching fractions of the radiative charm decays D-0 -
>(K)overbar(*)0)gamma and D-0->phi gamma
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 071101 (2008)

Measurement of the CP Asymmetry in b -> s gamma Using a Sum of Exclusive Final States
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; Tisserand, V; et al.
PHYSICAL REVIEW LETTERS

Measurement of time-dependent CP asymmetry in B-0 -> K-S(0)pi(0)gamma decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 071102 (2008)

Observation and Polarization Measurements of B-+/- -phi K-1(+/-) and B-+/- -phi K-2*(+/-)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

Observation of e(+)+e(-)->rho(+)rho(-) near root s=10.58 GeV
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 071103 (2008)

Search for B - K-+nu(nu)overbar decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 7 Article Number: 072007 (2008)

Measurement of ratios of branching fractions and CP-violating asymmetries of B-+/- -
D*K-+/- decays
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 9 Article Number: 092002 (2008)

Observation of B-0 -> chi K-c0*(0) and evidence for B+ -> chi K-c0*(+)
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 9 Article Number: 091101 (2008)
Search for the highly suppressed decays $B^- \to K^+\pi^(-)\pi(-)$ and $B^- \to K^-\pi^(+)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 9 Article Number: 091102 (2008)

Searches for $B$ Meson Decays to $\phi\phi$, $\phi\rho$, $\phi f(0)(980)$, and $f(0)(980) f(0)(980)$ Final States
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW LETTERS

Time-dependent and time-integrated angular analysis of $B \to \phi K^-\pi^0$ and $\phi K^+/-\pi^(-/+)$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 9 Article Number: 092008 (2008)

Measurement of the Branching Fractions of $B^{(*)}\to D^{(*)}(\pi)\to D^{(*)}(\pi)\to D^{(*)}(\pi)$ Decays in Events Tagged by a Fully Reconstructed $B$ Meson
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW LETTERS
Volume: 101 Issue: 26 Article Number: 261802 (2008)

Measurements of $B\to \Lambda (c)(p)\to \Lambda (c)(p)\to \Lambda (c)(p)\to \Lambda (c)(p)$ resonances
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 112001 (2008)

Measurements of branching fractions for $B_+ \to \rho(+)\gamma$, $B_0 \to \rho(0)\gamma$, and $B_0 \to \omega\gamma$
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 112002 (2008)

Study of hadronic transitions between $Y$ states and observation of $Y(4S) \to \eta Y(1S)$ decay
Aubert, B; Bona, M; Karyotakis, Y; Lees, JP; Poireau, V; Prencipe, E; Prudent, X; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 112002 (2008)

Watts, D
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14 records

Cross sections and beam asymmetries for $(e)\to p\pi(+) in the nucleon resonance region for 1.7 < Q^2 < 4.5 GeV2$
Park, K; Burkert, VD; Kim, W; Aznauryan, IG; Minehart, R; Smith, LC; Joo, K; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 1 Article Number: 015208 (2008)

New results on the Roper resonance and the $P11$ partial wave
Sarantsev, AV; Fuchs, M; Kotulla, M; Thoma, U; Ahrens, J; Annand, JRM; Anisovich, AV; et al.
PHYSICS LETTERS B

435
Bayesian analysis of pentaquark signals from CLAS data
Ireland, DG; McKinnon, B; Protopopescu, D; Ambrozewicz, P; Anghinolfi, M; Asryan, G; et al.
PHYSICAL REVIEW LETTERS
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Incoherent neutral pion photoproduction on C-12
Tarbert, CM; Watts, DP; Aguár, P; Ahrens, J; Annand, JRM; Arends, HJ; Beck, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 13 Article Number: 132301 (2008)

Measurement of deeply virtual compton scattering beam-spin asymmetries
Girod, FX; Niyazov, RA; Avakian, H; Ball, J; Bedlinskiy, I; Burkert, VD; De Masi, R; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 16 Article Number: 162002 (2008)

Measurement of ep -> ep pi(0) beam spin asymmetries above the resonance region
De Masi, R; Garcon, M; Zhao, B; Amaryan, MJ; Ambrozewicz, P; Anghinolfi, M; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 4 Article Number: 042201 (2008)

Polarized structure function sigma(4)(LT) for H-1(1(e)over->right-arrow,e(1)K(+))Lambda in the nucleon resonance region
Nasseripour, R; Raue, BA; Carman, DS; Ambrozewicz, P; Amaryan, MJ; Anciant, E; et al.
PHYSICAL REVIEW C
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Light vector mesons in the nuclear medium
Wood, MH; Nasseripour, R; Weygand, DP; Djalali, C; Tur, C; Mosel, U; Muehlich, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 1 Article Number: 015201 (2008)

Electroproduction of phi(1020) mesons at 1.4 <= Q(2) <= 3.8 GeV2 measured with the CLAS spectrometer
Santoro, JP; Smith, ES; Garcon, M; Guidal, M; Laget, JM; Weiss, C; Adams, G; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 2 Article Number: 025210 (2008)

Electroexcitation of the Roper resonance for 1.7 < Q(2)< 4.5 GeV2 in ep -> en pi(+)
Aznouryan, IG; Burkert, VD; Kim, W; Park, K; Adams, G; Amaryan, MJ; Ambrozewicz, P; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045209 (2008)

First measurement of target and double spin asymmetries for ep -> ep pi(0) in the nucleon resonance region above the Delta(1232)
Biselli, AS; Burkert, VD; Amaryan, MJ; Asryan, G; Avakian, H; Bagdasaryan, H; et al.
PHYSICAL REVIEW C
Volume: 78 Issue: 4 Article Number: 045204 (2008)

Radiation hardness study on fused silica
Hoek, M; Bennet, ED; Branford, D; Cowie, EN; Duren, M; Fohl, K; Glazier, D; et al.
'Proceedings of the 6th International Workshop on Ring Image Cherenkov Counters (RICH 2007)',
OCT 15-20, 2007, Trieste, ITALY
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
The DIRC detectors of the (P)over-barANDA experiment at FAIR
Fohl, K; Bettoni, D; Branford, D; Britting, A; Carassiti, V; Cecchi, A; Dodokhof, VK; et al.
'Proceedings of the 6th International Workshop on Ring Image Cherenkov Counters (RICH 2007)',
OCT 15-20, 2007, Trieste, ITALY
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-
ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT

He-3(e,e'pp) and He-3(e,e'pn) reactions at AmPS and MAMI
Middleton, DG; Annand, JRM; Antelo, MA; Ayerbe, C; Barneo, P; Baumann, D; Bermuth, J; et al.
'Proceedings of the 20th European Conference on Few-Body Problems in Physics', SEP 10-14, 2007,
Pisa, ITALY
FEW-BODY SYSTEMS

Current Research
My research uses electromagnetic probes to study the structure of the nucleon and the short-range
structure of the nucleus. The majority of my recent efforts have been at the Crystal Ball at MAMI
where in recent years I led the Particle Identification sub-detector project and the development of the
new Edinburgh 4pi nucleon recoil polarimeter. I am the spokesperson for experiments that will
accurately measure the magnetic moments of strongly decaying particles, determine the nature of
neutron skins in heavy stable nuclei and provide data to constrain the determination of the excitation
spectrum of the nucleon fully for the first time.

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Carsten Weidner
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Michele Weiland
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Welna, K
Karl Welna
Research Student
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Welsh, A
Amy Welsh
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Zero records
Welsh, GH
Gregor Welsh
Researcher
University of Strathclyde in Glasgow
1 record

Terahertz-pulse emission through excitation of surface plasmons in metallic nanostructures - art. no. 68921E
Welsh, GH; Wynne, K
ULTRAFAST PHENOMENA IN SEMICONDUCTORS AND NANOSTRUCTURE MATERIALS XII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Song, JJ, Tsen, KT, Betz, M, Elezzabi, AY (Eds)

Wennekers, J
Jan Wennekers
Researcher
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2 records

Determination of the Delta S=1 weak Hamiltonian in the SU(4) chiral limit through topological zero-mode wave functions
Hernandez, P; Laine, M; Pena, C; Torro, E; Wennekers, J; Wittig, H
JOURNAL OF HIGH ENERGY PHYSICS
Issue: 5 Article Number: 043 (2008)

Physical results from 2+1 flavor domain wall QCD and SU(2) chiral perturbation theory
Allton, C; Antonio, DJ; Aoki, Y; Blum, T; Boyle, PA; Christ, NH; Clark, MA; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 11 Article Number: 114509 (2008)

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The University of Edinburgh
1 record

Influence of particle composition and thermal cycling on bijel formation
White, KA; Schofield, AB; Binks, BP; Clegg, PS
JOURNAL OF PHYSICS-CONDENSED MATTER
Volume: 20 Issue: 49(Sp. Iss. SI) Article Number: 494223 (2008)

White, T
Thomas White
Researcher
University of St Andrews
5 records

Photonic crystal laser with mode selective mirrors
Moore, SA; O'Faolain, L; White, TP; Krauss, TF
OPTICS EXPRESS
Volume: 16 Issue: 2 Pages: 1365-1370 (2008)
Ultracompact and low-power optical switch based on silicon photonic crystals
Beggs, DM; White, TP; O'Faolain, L; Krauss, TF
OPTICS LETTERS
Volume: 33 Issue: 2 Pages: 147-149 (2008)

Systematic design of flat band slow light in photonic crystal waveguides
Li, J; White, TP; O'Faolain, L; Gomez-Iglesias, A; Krauss, TF
OPTICS EXPRESS
Volume: 16 Issue: 9 Pages: 6227-6232 (2008)

Silica-embedded silicon photonic crystal waveguides
White, TP; O'Faolain, L; Li, JT; Andreani, LC; Krauss, TF
OPTICS EXPRESS

Efficient slow-light coupling in a photonic crystal waveguide without transition region
White, TP; Botten, LC; de Sterke, CM; Dossou, KB; McPhedran, RC
OPTICS LETTERS

Whiteford, AD
Allan Whiteford
Researcher
University of Strathclyde in Glasgow
3 records

Modelling of measured tungsten spectra from ASDEX Upgrade and predictions for ITER
Putterich, T; Neu, R; Dux, R; Whiteford, AD; O'Mullane, MG
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 8 Article Number: 085016 (2008)

R-matrix inner-shell electron-impact excitation of Fe15+ including Auger-plus-radiation damping
Liang, GY; Whiteford, AD; Badnell, NR
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS
Volume: 41 Issue: 23 Article Number: 235203 (2008)

Fast ion charge exchange spectroscopy measurement using a radially injected neutral beam on the large helical device
Osakabe, M; Murakami, S; Yoshinuma, M; Ida, K; Whiteford, A; Goto, M; Kato, D; et al.
REVIEW OF SCIENTIFIC INSTRUMENTS
Volume: 79 Issue: 10 Article Number: 10E519 (2008)

Whyte, CG
Colin Whyte
Researcher
University of Strathclyde in Glasgow
13 records

Free-electron maser based on a cavity with two- and one-dimensional distributed feedback
Konoplev, IV; Cross, AW; Machnes, P; He, W; Phelps, ADR; Whyte, CG; Ronald, K; Robertson, CW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 21 Article Number: 211501 (2008)
Demonstration of auroral radio emission mechanisms by laboratory experiment
McConville, SL; Speirs, DC; Ronald, K; Phelps, ADR; Cross, AW; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074010 (2008)

Numerical simulation of auroral cyclotron maser processes
Speirs, DC; McConville, SL; Gillespie, KM; Ronald, K; Phelps, ADR; Cross, AW; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 7 Article Number: 074011 (2008)

Axis-encircling electron beam generation using a smooth magnetic cusp for gyrodevices
He, W; Whyte, CG; Rafferty, EG; Cross, AW; Phelps, ADR; Ronald, K; Young, AR; et al.
APPLIED PHYSICS LETTERS
Volume: 93 Issue: 12 Article Number: 121501 (2008)

Radio frequency resonator structure and diagnostic measurements for a laboratory simulation of Auroral Kilometric Radiation
Ronald, K; Speirs, DC; McConville, SL; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
PHYSICS OF PLASMAS
Volume: 15 Issue: 5 Article Number: 056503 (2008)

Electron beam measurements for a laboratory simulation of auroral kilometric radiation
Ronald, K; McConville, SL; Speirs, DC; Phelps, ADR; Robertson, CW; Whyte, CG; et al.
'Proceedings of the 28th International Conference on Phenomena in Ionized Gases', JUL 15-20, 2007, Prague, CZECH REPUBLIC
PLASMA SOURCES SCIENCE & TECHNOLOGY
Volume: 17 Issue: 3 Article Number: 035011 (2008)

3D PiC code simulations for a laboratory experimental investigation of Auroral Kilometric Radiation mechanisms
Gillespie, KM; Speirs, DC; Ronald, K; McConville, SL; Phelps, ADR; Bingham, R; et al.
PLASMA PHYSICS AND CONTROLLED FUSION
Volume: 50 Issue: 12 Article Number: 124038 (2008)

A fast multilayer window design tool, simulations and comparison with experiment
Whyte, CG; Young, AR; Rowlands, DH; Robertson, CW; Phelps, ADR; He, WL; Cross, AW; Ronald, K
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 316-317 (2008)

A similar to 10kW W-Band Gyro-BWO using a Helically Corrugated Waveguide
Donaldson, CR; He, WL; Phelps, ADR; Li, FP; Cross, AW; Ronald, K; Young, AR; Whyte, CG
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 201-202 (2008)
Broadband gyro-TWA with thermionic CUSP gun: Simulations and comparison with experiment
Whyte, CG; Young, AR; Rowlands, DH; Robertson, CW; Phelps, ADR; He, WL; Cross, AW; Ronald, K
2008 IEEE INTERNATIONAL VACUUM ELECTRONICS CONFERENCE
Pages: 89-90 (2008)

Helically corrugated waveguides for compression of microwave pulses
McStravick, M; Samsonov, SV; Cross, AW; Denisov, GG; He, W; Maclnnes, P; Phelps, ADR; et al.
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 181-182 (2008)

High Power Masers based on 2D periodic structures: from the GHz to THz frequency range
Fisher, L; Maclnnes, P; Konoplev, IV; Cross, AW; He, W; Ronald, K; Phelps, ADR; et al.
2008 33RD INTERNATIONAL CONFERENCE ON INFRARED, MILLIMETER AND TERAHERTZ WAVES, VOLS 1 AND 2
Pages: 418-419 (2008)

Laboratory Reproduction of Auroral Magnetospheric Radio Wave Sources
Ronald, K; Speirs, DC; McConville, SL; Gillespie, KM; Phelps, ADR; Cross, AW; et al.
FRONTIERS IN MODERN PLASMA PHYSICS, AIP CONFERENCE PROCEEDINGS, Shukla, PK, Eliasson, B, Stenflo, L (Eds)

Wiggins, M
Mark Wiggins
Researcher
University of Strathclyde in Glasgow
2 records

A compact synchrotron radiation source driven by a laser-plasma wakefield accelerator
Schlenvoigt, HP; Haupt, K; Debus, A; Budde, F; Jackel, O; Pfotenhauer, S; Schwoerer, H; et al.
NATURE PHYSICS

Synchrotron radiation from laser-accelerated monoenergetic electrons
Schlenvoigt, HP; Haupt, K; Debus, A; Budde, F; Jaeckel, O; Pfotenhauer, S; et al.
IEEE TRANSACTIONS ON PLASMA SCIENCE
Current Research
Mark is a senior research fellow in the SILIS group and has held the position of ALPHA-X project manager since January 2006. The Advanced Laser-Plasma High-Energy Accelerators towards X-rays (ALPHA-X) programme is developing laser-plasma accelerators for the production of ultra-short electron beams as drivers of incoherent and coherent radiation sources from plasma and magnetic undulators.

Wigmore, I
Ioan Wigmore
Research Student
The University of Edinburgh
Zero records

Williams, PM
Peredur Williams
Researcher
The University of Edinburgh
2 records

The WFCAM science archive
Hambly, NC; Collins, RS; Cross, NJG; Mann, RG; Read, MA; Sutorius, ETW; Bond, I; et al.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

DUST FORMATION BY COLLIDING-WIND BINARIES
Williams, PM
MASSIVE STARS: FUNDAMENTAL PARAMETERS AND CIRCUMSTELLAR INTERACTIONS, REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS, Benaglias, P (Eds)
Volume: 33 Pages: 71-76 (2008)

Wilson, C
Christopher Wilson
Research Student
University of the West of Scotland
Zero records

Wilson, CJ
Chris Wilson
Research Student
University of Glasgow
Zero records

Wilson, D
David Wilson
Research Student
University of Strathclyde in Glasgow
Zero records

Wilson, JIB
John Wilson
Academic
Heriot-Watt University
4 records
Carbon nanotube arrays for optical design of amorphous silicon solar cells
Wilson, JIB
JOURNAL INTERNATIONAL JOURNAL OF MATERIAL FORMING

The growth of AA graphite on (111) diamond
Lee, JK; Lee, SC; Ahn, JP; Kim, SC; Wilson, JIB; John, P
JOURNAL OF CHEMICAL PHYSICS
Volume: 129 Issue: 23 Article Number: 234709 (2008)

Synthesis and characterization of freestanding diamond/carbon nanoflake hybrid films
Lee, JK; John, P; Kim, SC; Lee, WS; Wilson, JIB
DIAMOND AND RELATED MATERIALS

Unusual morphology of CVD diamond surfaces after RIE
Stoikou, MD; John, P; Wilson, JIB
DIAMOND AND RELATED MATERIALS

Wilson, L
Laurence Wilson
Researcher
The University of Edinburgh
Zero records

Wlodarczyk, K
Krystian Wlodarczyk
Research Student
Heriot-Watt University
Zero records

Woan, G
Graham Woan
Academic
University of Glasgow
13 records

All-sky search for periodic gravitational waves in LIGO S4 data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 2 Article Number: 022001 (2008)

Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062004 (2008)

Search for gravitational waves from binary inspirals in S3 and S4 LIGO data
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 77 Issue: 6 Article Number: 062002 (2008)
A joint search for gravitational wave bursts with AURIGA and LIGO
Baggio, L; Bignotto, M; Bonaldi, M; Cerdonio, M; De Rosa, M; Falferi, P; Fattori, S; et al.
CLASSICAL AND QUANTUM GRAVITY

Report on the second Mock LISA data challenge
Babak, S; Baker, JG; Benaquista, MJ; Cornish, NJ; Crowder, J; Cutler, C; Larson, SL; et al.
CLASSICAL AND QUANTUM GRAVITY

Implications for the origin of GRB 070201 from LIGO observations
Abbott, B; Abbott, R; Adhikari, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
ASTROPHYSICAL JOURNAL

Beating the spin-down limit on gravitational wave emission from the Crab pulsar
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
ASTROPHYSICAL JOURNAL LETTERS

Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals
Abbott, B; Abbott, R; Adhikai, R; Agresti, J; Ajith, P; Allen, B; Amin, R; et al.
PHYSICAL REVIEW D
Volume: 78 Issue: 4 Article Number: 042002 (2008)

Search for Gravitational-Wave Bursts from Soft Gamma Repeaters
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
PHYSICAL REVIEW LETTERS

First joint search for gravitational-wave bursts in LIGO and GEO 600 data
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY

Searching for gravitational waves from Cassiopeia A with LIGO
Wette, K; Owen, BJ; Allen, B; Ashley, M; Betzwieser, J; Christensen, N; Creighton, TD; et al.
CLASSICAL AND QUANTUM GRAVITY
Volume: 25 Issue: 23 Article Number: 235011 (2008)

Astrophysically triggered searches for gravitational waves: status and prospects
Abbott, B; Abbott, R; Adhikari, R; Ajith, P; Allen, B; Allen, G; Amin, R; Anderson, SB; et al.
CLASSICAL AND QUANTUM GRAVITY, IOP PUBLISHING LTD
Volume: 25 Issue: 11 Article Number: 114051 (2008)

Robust Bayesian detection of unmodelled bursts
Searle, AC; Sutton, PJ; Tinto, M; Woan, G
CLASSICAL AND QUANTUM GRAVITY, IOP PUBLISHING LTD
Current Research
Gravitational wave astronomy and data analysis, specialising in continuous wave searches and Bayesian methods. The astrophysical sources of gravitational radiation. Radio astronomy, in particular propagation at long wavelengths, including interplanetary scintillation and space-based radio astronomy. Development of the Square Kilometre Array and LOFAR.

**Woitke, P**
Peter Woitke
Researcher
The University of Edinburgh
8 records

*Consistent simulations of substellar atmospheres and nonequilibrium dust cloud formation*
Helling, C; Dehn, M; Woitke, P; Hauschildt, PH
*ASTROPHYSICAL JOURNAL LETTERS*

*The influence of dust formation modelling on Na I and K I line profiles in substellar atmospheres*
Johnas, CMS; Helling, C; Dehn, M; Woitke, P; Hauschildt, PH
*MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

*Dust in brown dwarfs and extra-solar planets - I. Chemical composition and spectral appearance of quasi-static cloud layers*
Helling, C; Woitke, P; Thi, WF
*ASTRONOMY & ASTROPHYSICS*
Volume: 485 Issue: 2 Pages: 547-560 (2008)

*A comparison of chemistry and dust cloud formation in ultracool dwarf model atmospheres*
Helling, C; Ackerman, A; Allard, F; Dehn, M; Hauschildt, P; Homeier, D; Lodders, K; et al.
*MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

*Dust-driven Winds Beyond Spherical Symmetry*
Woitke, P
*Proceedings of the 252nd Symposium of the International-Astronomical-Union*, APR 06-11, 2008, Sanya, PEOPLE'S R CHINA
*ART OF MODELLING STARS IN THE 21ST CENTURY, IAU SYMPOSIUM PROCEEDINGS SERIES*, Deng, L, Chan, KL (Eds)

*Monte Carlo radiative transfer in multi-D dynamical models of dust-driven winds*
Woitke, P
*Proceedings of the Workshop on Perspectives in Radiative Transfer and Interferometry*, MAY 14-16, 2007, Chateau de Pizay, FRANCE
*PERSPECTIVES IN RADIATIVE TRANSFER AND INTERFEROMETRY, EAS PUBLICATIONS SERIES*, Wolf, S, Allard, F, Stee, PH (Eds)
Volume: 28 Pages: 75-83 (2008)

*The Consistent Modeling of Alkali Lines and Dust Formation in Extreme Exo-Planets*
Johnas, CMS; Helling, C; Witte, S; Dehn, M; Woitke, P; Hauschildt, PH
*EXTREME SOLAR SYSTEMS, ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES*, Fischer, D, Rasio, FA, Thorsett, SE, Wolszczan, A (Eds)
The Power of Optical/IR Interferometry: Recent Scientific Results and 2nd Generation Instrumentation
Woitke, P; Quirrenbach, A

Wong, C
Chrissy Wong
Research Student
The University of Edinburgh
Zero records

Wong, G
Gerald Wong
Research Student
Heriot-Watt University
Zero records

Current Research
My research interest covers various hardware aspects of hyperspectral imaging (HSI), specifically with respect to the development of the IRIS sensor. HSI offers the advantage of increased discrimination through additional spectral information with respect to normal broadband sensors. This novel patented invention is a snapshot device, which concurrently measures both spatial and spectral information within a remote scene. This is achieved through fixed optical elements with no mechanical or temporal scanning, enabling a relatively compact and robust passive sensor. With recent progress in advancing IRIS from the visible into the infrared region, it provides numerous opportunities for remote sensing applications. Fellow peers are exploiting IRIS for ophthalmic diagnosis of the human retina, while my focus is on airborne HSI and the various opportunities therein.

Wood, K
Kenneth Wood
Academic
University of St Andrews
5 records

Infrared signatures and models of circumstellar dust disks
Wood, K
NEW ASTRONOMY REVIEWS

Infrared spectroscopy of the diffuse ionized halo of NGC 891
Rand, RJ; Wood, K; Benjamin, RA
ASTROPHYSICAL JOURNAL

IRAS 04325+2402C: A very low mass object with an edge-on disk
Scholz, A; Jayawardhana, R; Wood, K; Lafreniere, D; Schreyer, K; Doyon, R
ASTROPHYSICAL JOURNAL LETTERS

Reflected light from 3D exoplanetary atmospheres and simulation of HD 209458b (p 257-269)
Hood, B; Wood, K; Seager, S; Cameron, AC
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
EMISSION FROM VERY SMALL GRAINS AND PAH MOLECULES IN MONTE CARLO RADIATION TRANSFER CODES: APPLICATION TO THE EDGE-ON DISK OF GOMEZ’S HAMBURGER
Wood, K; Whitney, BA; Robitaille, T; Draine, BT
ASTROPHYSICAL JOURNAL

Wood, T
Tiffany Wood
Researcher
The University of Edinburgh
2 records

Electrostatic charging of nonpolar colloids by reverse micelles
Roberts, GS; Sanchez, R; Kemp, R; Wood, T; Bartlett, P
LANGMUIR

Characterization of microparticles with driven optical tweezers
Wood, TA; Roberts, GS; Eaimkhong, S; Bartlett, P
'Proceedings of the Conference on Spectroscopy and Dynamics of Microparticles', JUL 02-04, 2007, Bristol, ENGLAND
FARADAY DISCUSSIONS

Woodcraft, AL
Adam Woodcraft
Academic
The University of Edinburgh
5 records

Cryogenic magnetic shielding for SCUBA-2 - art. no. 702023
Hollister, M; McGregor, H; Woodcraft, A; Bintley, D; MacInotsh, M; Holland, W
MILLIMETER AND SUBMILLIMETER DETECTORS AND INSTRUMENTATION FOR ASTRONOMY IV, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Duncan, WD, Holland, WS, Witherington, S, Zmuidzinas, J (Eds)

Herschel-SPIRE: Design, ground test results, and predicted performance - art. no. 701006
Griffin, M; Swinyard, B; Vigroux, L; Abergel, A; Ade, P; Andre, P; Baluteau, JP; et al.
SPACE TELESCOPES AND INSTRUMENTATION 2008: OPTICAL, INFRARED, AND MILLIMETER, PTS 1 AND 2, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Oschmann, JM, DeGraauw, MWM, MacEwen, HA (Eds)
Lessons learned from SCUBA-2 for future cryogenic instrumentation in space - art. no. 70102M
Woodcraft, AL
SPACE TELESCOPES AND INSTRUMENTATION 2008: OPTICAL, INFRARED, AND MILLIMETER, PTS 1 AND 2, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Oschromann, JM, DeGraauw, MWM, MacEwen, HA (Eds)

Performance of the SCUBA-2 dilution refrigerator - art. no. 70200Y
Hollister, M; Wooderaft, A; Holland, W; Bintley, D
MILLIMETER AND SUBMILLIMETER DETECTORS AND INSTRUMENTATION FOR ASTRONOMY IV, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Duncan, WD, Holland, WS, Withington, S, Zmuidzinas, J (Eds)

Understanding the Herschel-SPIRE bolometers - art. no. 70200F
Woodcraft, AL; Nguyen, H; Bock, J; Griffin, M; Schulz, B; Sibthorpe, B; Swinyard, B
MILLIMETER AND SUBMILLIMETER DETECTORS AND INSTRUMENTATION FOR ASTRONOMY IV, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Duncan, WD, Holland, WS, Withington, S, Zmuidzinas, J (Eds)

Woods, P
Phil Woods
Academic
The University of Edinburgh
4 records

Effects of triaxial deformation and pairing correlation on the proton emitter Tm-145
Yao, JM; Sun, B; Woods, PJ; Meng, J
PHYSICAL REVIEW C
Volume: 77 Issue: 2 Article Number: 024315 (2008)

First in-beam gamma-ray spectroscopy study of Al-24 and its implications for the astrophysical Mg-23(p,gamma)Al-24 reaction rate in ONe novae
Lotay, G; Woods, PJ; Seweryniak, D; Carpenter, MP; Hoteling, N; Janssens, RVF; et al.
PHYSICAL REVIEW C
Volume: 77 Issue: 4 Article Number: 042802 (2008)

Single-neutron states in Sn-101
Seweryniak, D; Carpenter, MP; Gros, S; Hecht, AA; Hoteling, N; Janssens, RVF; et al.
FRONTIERS IN NUCLEAR STRUCTURE, ASTROPHYSICS, AND REACTIONS - FINUSTAR 2, AIP CONFERENCE PROCEEDINGS, Demetriuo, P, Harissopulos, SV (Eds)
Volume: 1012 Pages: 79-83 (2008)
Spectroscopy of proton-rich nuclei for explosive hydrogen burning reactions
Woods, PJ
'Proceedings of the 22nd Carpathian Summer School of Physics 2007', AUG 20-31, 2007, Sinaia, ROMANIA
EXOTIC NUCLEI AND NUCLEAR /PARTICLE ASTROPHYSICS (II), AIP CONFERENCE PROCEEDINGS, Trache, L, Stoica, S (Eds)

Woolley, AG
Alan Woolley
Researcher
The University of Edinburgh
1 record

A review of an experiment on the pressure build-up on the feet of flue organ pipes originally carried out by Noel Bonavia-Hunt
Woolley, AG; Apostoli, AG
'Proceedings of the Spring Conference 2008', MAR 18-19, 2008, Reading, UK
PROCEEDINGS OF THE INSTITUTE OF ACOUSTICS (2008)

Current Research
The Arts and Humanities Research Council funds Alan’s current project, which set outs to examine the way in which the characteristics of mechanical pipe organ actions, in particular plucking, affect how players can influence the transients and the use of rhythmic and timing variations to achieve expression. The airflow through the windchest is being studied with the aim of optimising the airflow to pluck ration and a computer program under development at the Fraunhofer Institut fur Bauphysik in Stuttgart that predicts the characteristics of action is being refined

Wraight, K
Kenneth Wraight
Research Student
University of Glasgow
Zero records

Wright, AJ
Amanda Wright
Academic
University of Strathclyde in Glasgow
7 records

Intracavity absorption spectrometry: a new technique for process analysis?
Elejalde, U; Wright, AJ; Girkin, JM
CHIMICA OGGI-CHEMISTRY TODAY
Volume: 26 Issue: 1 Pages: 12-13 (2008)

Evaluation of fitness parameters used in an iterative approach to aberration correction in optical sectioning microscopy
Poland, SP; Wright, AJ; Girkin, JM
APPLIED OPTICS

Active focus locking in an optically sectioning microscope utilizing a deformable membrane mirror
Poland, SP; Wright, AJ; Girkin, JM
OPTICS LETTERS
Volume: 33 Issue: 5 Pages: 419-421 (2008)
Aether drag and moving images
Leach, J; Wright, AJ; Gotte, JB; Girkin, JM; Allen, L; Franke-Arnold, S; Barnett, SM; Padgett, MJ
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 15 Article Number: 153902 (2008)

Transfer of orbital angular momentum from a super-continuum, white-light beam
Wright, AJ; Girkin, JM; Gibson, GM; Leach, J; Padgett, MJ
OPTICS EXPRESS
Volume: 16 Issue: 13 Pages: 9495-9500 (2008)

Measuring the accuracy of particle position and force in optical tweezers using high-speed video microscopy
Gibson, GM; Leach, J; Keen, S; Wright, AJ; Padgett, MJ
OPTICS EXPRESS
Volume: 16 Issue: 19 Pages: 14561-14570 (2008)

Adaptive optics applied to coherent anti-Stokes Raman scattering microscopy - art. no. 68600T
Girkin, JM; Poland, SP; Wright, AJ; Freudiger, C; Evans, CL; Xie, XS
'Proceedings of the Conference on Multiphoton Microscopy in the Biomedical Sciences VIII', JAN 20-22, 2008, San Jose, CA
MULTIPHOTON MICROSCOPY IN THE BIOMEDICAL SCIENCES VIII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Periasamy, A, So, PTC (Eds), SPIE-INT SOC OPTICAL ENGINEERING
Volume: 6860 Pages: T8600-T8600 (2008)

Wright, C
Catherine Wright
Research Student
University of Glasgow
1 record

The ATLAS Experiment at the CERN Large Hadron Collider
Aad, G; Abat, E; Abdallah, J; Abdelalim, AA; Abdesselam, A; Abdinov, O; Abi, BA; et al.
JOURNAL OF INSTRUMENTATION
Volume: 3 Article Number: S08003 (2008)

Wu, M
Min Wu
Research Student
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Zero records

Wu, X
Xufen Wu
Research Student
University of St Andrews
2 records

Self-consistent models of triaxial galaxies in mond gravity
Wang, YG; Wu, XF; Zhao, HS
ASTROPHYSICAL JOURNAL
Volume: 677 Issue: 2 Pages: 1033-1039 (2008)
Milky way potentials in cold dark matter and MOdified newtonian dynamics. Is the large magellanic cloud on a bound orbit?
Wu, XF; Famaey, B; Gentile, G; Perets, H; Zhao, HS
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

Wynne, B
Benjamin Wynne
Research Student
The University of Edinburgh
Zero records

Wynne, K
Klaas Wynne
Academic
University of Strathclyde in Glasgow
3 records

Glasslike behavior in aqueous electrolyte solutions
Turton, DA; Hunger, J; Heffer, G; Buchner, R; Wynne, K
JOURNAL OF CHEMICAL PHYSICS

Structural relaxation in the hydrogen-bonding liquids \(\text{N-methylacetamide}\) and water studied by optical Kerr effect spectroscopy
Turton, DA; Wynne, K
JOURNAL OF CHEMICAL PHYSICS

Terahertz-pulse emission through excitation of surface plasmons in metallic nanostructures - art. no. 68921E
Welsh, GH; Wynne, K
ULTRAFAST PHENOMENA IN SEMICONDUCTORS AND NANOSTRUCTURE MATERIALS XII, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Song, JJ, Tsen, KT, Betz, M, Elezzabi, AY (Eds)

Current Research
Klaas Wynne studied for his MSci (1987) and PhD (1990) at the University of Amsterdam under the guidance of Professor Joop van Voorst studying Raman photon echoes and other ultrafast phenomena. He became a postdoctoral fellow at the University of Pennsylvania with Professor Robin Hochstrasser in 1991 building ultrafast laser systems and using them to study condensed phase small molecule dynamics and various larger proteins from the ultraviolet to the infrared. He joined the Physics Department at Strathclyde in 1996 where he is currently a professor.

Xie, Y
Yuehong Xie
Researcher
The University of Edinburgh
23 records
Exclusive branching-fraction measurements of semileptonic tau decays into three charged hadrons, into phi pi(-)nu(tau), and into phi K-nu(tau)
Aubert, B; Bona, M; Boutigny, D; Couderc, F; Karyotakis, Y; Lees, JP; Poireau, V; et al.
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 1 Article Number: 011801 (2008)

Measurement of the CP-violating asymmetries in B-0 -> K-s(0)pi(0) and of the branching fraction B-0 -> K-0 pi(0)
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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PHYSICAL REVIEW D
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Observation of $B_0 \rightarrow K^{*-0}(K)\bar{\overline{\text{B}}}(\bar{\text{K}}^{*0})$ and search for $B_0 \rightarrow K^{*-0}(K)\bar{\overline{\text{B}}}(\bar{\text{K}}^{*0})$
Aubert, B; Bona, M; Boutigny, D; Karyotakis, Y; Lees, JP; Poireau, V; Prudent, X; et al.
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Volume: 3 Article Number: S08005 (2008)

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Optical spectroscopy of free excitons in a CuInS$_2$ chalcopyrite semiconductor compound
Mudryi, AV; Ivanyukovich, AV; Yakushev, MV; Martin, R; Saad, A
SEMICONDUCTORS

Excited states of the $A$ free exciton in CuInS$_2$
Yakushev, MV; Martin, RW; Mudryi, AV; Ivaniukovich, AV
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 11 Article Number: 111908 (2008)

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Current Research
Dr Lei Yang received his PhD degree in Pattern Recognition and Intelligent System from the Institute of Image Processing and Pattern Recognition, Shanghai Jiao Tong University, China, in 2006. He then spent two years doing image processing algorithm research in OmniVision Technologies Inc. (Shanghai) before joining Heriot-Watt University in June 2008 as a Postdoctoral Research Associate. His research interests include image processing, pattern recognition, machine learning and control theory and applications. Now he is working on an EPSRC funded research project focusing on image denoising and particle tracking in live cell fluorescence images.

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Hybrid optoelectronics: A polymer laser pumped by a nitride light-emitting diode
Yang, Y; Turnbull, GA; Samuela, IDW
APPLIED PHYSICS LETTERS
Volume: 92 Issue: 16 Article Number: 163306 (2008)

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Turnbull, GA; Yang, Y; Shaw, P; Ruseckas, A; Samuel, IDW
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Thomson, LC; Boissel, Y; Whyte, G; Yao, E; Courtial, J
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Preece, D; Yao, E; Gibson, G; Bowman, R; Leach, J; Padgett, M
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Yelland, EA
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2 records
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Yelland, EA; Singleton, J; Mielke, CH; Harrison, N; Balakirev, FF; Dabrowski, B; Cooper, JR
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PHYSICA B-CONDENSED MATTER
Volume: 403 Issue: 5-9 Pages: 1270-1272 (2008)

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5 records

Axis-encircling electron beam generation using a smooth magnetic cusp for gyrodevices
He, W; Whyte, CG; Rafferty, EG; Cross, AW; Phelps, ADR; Ronald, K; Young, AR; et al.
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Pages: 181-182 (2008)

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Effects of front surface plasma expansion on proton acceleration in ultraintense laser irradiation of foil targets
McKenna, P; Carroll, DC; Lundh, O; Nurnberg, F; Markey, K; Bandyopadhyay, S; et al.
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KI3 semileptonic form factor from (2+1)-flavor lattice QCD
Boyle, PA; Juttner, A; Kenway, RD; Sachrajda, CT; Sasaki, S; Soni, A; Tweedie, RJ; Zanotti, JM
PHYSICAL REVIEW LETTERS
Volume: 100 Issue: 14 Article Number: 141601 (2008)

Nucleon axial charge in (2+1)-flavor dynamical-lattice QCD with domain-wall fermions
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Volume: 61 Issue: 1 Pages: 73-80 (2008)

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CMOS driven micro-pixel LEDs integrated with single photon avalanche diodes for time resolved fluorescence measurements
Rae, BR; Griffin, C; McKendry, J; Girkin, JM; Zhang, HX; Gu, E; Renshaw, D; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS
Volume: 41 Issue: 9 Article Number: 094011 (2008)
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Gong, Z; Gu, E; Jin, SR; Massoubre, D; Guilhabert, B; Zhang, HX; Dawson, MD; et al.
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Micro-LED arrays: a tool for two-dimensional neuron stimulation
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JOURNAL OF PHYSICS D-APPLIED PHYSICS
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The 310-340nm ultraviolet light emitting diodes grown using a thin GaN interlayer on a high temperature AlN buffer
Wang, T; Lee, KB; Bai, J; Parbrook, PJ; Ranalli, F; Wang, Q; Airey, RJ; Cullis, AG; et al.
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Individually-addressable flip-chip AlInGaN micropixelated light emitting diode arrays with high continuous and nanosecond output power
Zhang, HX; Massoubre, D; McKendry, J; Gong, Z; Guilhabert, B; Griffin, C; Gu, E; et al.
OPTICS EXPRESS

Improved sectioning in a slit scanning confocal microscope
Poher, V; Kennedy, GT; Manning, HB; Owen, DM; Zhang, HXX; Gu, E; Dawson, MD; French, PMW; Neil, MAA
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Integration by self-aligned writing of nanocrystal/epoxy composites on InGaN micropixelated light-emitting diodes
Guilhabert, B; Elfstrom, D; Kuehne, AJC; Massoubre, D; Zhang, HX; Jin, SR; et al.
OPTICS EXPRESS

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Characterization of microscope objective lenses from 1,400 to 1,650 nm to evaluate performance for long-wavelength nonlinear microscopy applications
Keatings, SR; Zhang, W; McConnell, G
MICROSCOPY RESEARCH AND TECHNIQUE
Volume: 71 Issue: 7 Pages: 517-520 (2008)

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The velocity distribution of Sloan Digital Sky Survey satellites in Modified Newtonian Dynamics
Angus, GW; Famaey, B; Tiret, O; Combes, F; Zhao, HS
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

An uneven vacuum energy fluid as Lambda, dark matter, mond and lens
Zhao, HS
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Volume: 23 Issue: 8 Pages: 555-568 (2008)

Neutrinos as galactic dark matter in the Ursa Major galaxy group?
Gentile, G; Zhao, HS; Famaey, B
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Wang, YG; Wu, XF; Zhao, HS
ASTROPHYSICAL JOURNAL
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Wu, XF; Famaey, B; Gentile, G; Perets, H; Zhao, HS
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A nonuniform dark energy fluid: Perturbation equations
Halle, A; Zhao, HS; Li, BJ
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An analytic model for non-spherical lenses in covariant MOdified Newtonian Dynamics
Shan, HY; Feix, M; Famaey, B; Zhao, HS
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Is gravitational lensing by intercluster filaments always negligible?
Feix, M; Xu, D; Shan, HY; Famaey, B; Limousin, M; Zhao, HS; Taylor, A
ASTROPHYSICAL JOURNAL

Testing alternative theories of dark matter with the CMB
Li, BJ; Barrow, JD; Mota, DF; Zhao, HS
PHYSICAL REVIEW D
Volume: 78 Issue: 6 Article Number: 064021 (2008)

GALAXY BULGES AS TESTS OF CDM VERSUS MOND IN STRONG GRAVITY
Zhao, HS; Xu, BX; Dobbs, C
ASTROPHYSICAL JOURNAL

The diffuse Galactic gamma-rays from dark matter annihilation
Bi, XJ; Zhang, J; Yuan, Q; Zhang, JL; Zhao, HS
PHYSICS LETTERS B

Cosmological structure formation under MOND: a new numerical solver for Poisson's equation
Llinares, C; Knebe, A; Zhao, HS
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

THE BULGE RADIAL VELOCITY ASSAY (BRAVA). I. SAMPLE SELECTION AND A ROTATION CURVE
Howard, CD; Rich, RM; Reitzel, DB; Koch, A; De Propris, R; Zhao, H
ASTROPHYSICAL JOURNAL

Current Research
My current interests are in the interface area between Dark Matter, Dark Energy with Modified gravities. I have been developing theories that have properties in between these theories, realising the limitations of each theory. My aim is to put all these theories to test, especially raise the standard of comparison by doing N-body simulations, make predictions on gravitational lensing, and galaxy formation.

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Dark-state polaritons for multicomponent and stationary light fields
Zimmer, FE; Otterbach, J; Unanyan, RG; Shore, BW; Fleischhauer, M
PHYSICAL REVIEW A
Volume: 77 Issue: 6 Article Number: 063823 (2008)

Atomic Zitterbewegung
Merkl, M; Zimmer, FE; Juzeliunas, G; Oehberg, P
EPL
Volume: 83 Issue: 5 Article Number: 054002 (2008)