

Nuclear and Plasma Physics



The new SCAPA building, Strathclyde

The CLAS12 detector at Jefferson Lab, USA



World class research on laser-plasma interactions, high-field physics, nuclear physics, hadron physics, nuclear and plasma astrophysics

Members of large collaborations:

Laboratory for Underground Nuclear Astrophysics (LUNA), Italy
Neutron Time-of-Flight at CERN
Advanced Implantation Detector Array (AIDA)
Cockcroft Institute

Headline facts

~ 80 Academics, 55 PhD students
~ Regular theme-led papers in top-ranked journals including Nature group, Journal of Physics, Physical Review Letters and European Physical Journal

Research conducted globally at Jefferson Laboratory (Virginia, USA) and Mainz Microtron (Germany)

Two successful spin-out companies:

Anacail Ltd - applications of plasma technology in food preservation and medical sterilisation
Lynkeos Technology Ltd - developing cosmic muon detector for inspection applications in the nuclear industry

Theme Leader:

David Ireland
University of Glasgow



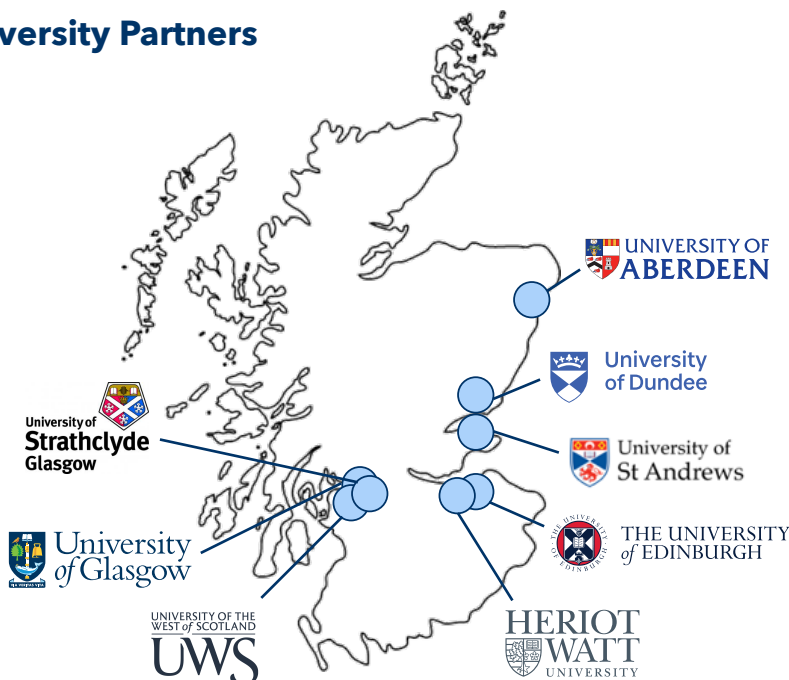


Scottish Universities Physics Alliance

Est. 2004



8 University Partners



7 Research Themes

Astronomy & Space Sciences
Condensed Matter & Materials Science
Nuclear & Plasma Physics
Particle Physics
Photonics
Energy
Physics & Life Sciences

3 SUPA Associate Partners



SUPA is the strategic alliance of eight Physics Schools with a shared strategy for research, and has been highly successful in establishing Scotland as an international leader in research and advanced postgraduate training in Physics.

Collectively, SUPA forms the largest cluster of research power in physics in the UK, with a community of over 1,200 physicists (academics, research staff and postgraduate students) across Scotland.

Reflecting the strengths in our eight partner universities SUPA is theme led, with five sub-discipline themes, and two impact themes (Energy and Physics & Life Sciences).

SUPA Graduate School

600 registered PGR students
8 state-of-the-art video classrooms
50+ technical and transferable skills courses

SUSSP summer schools
Annual showcase of research

Headline Facts

Network of >1,200 physics researchers including:

>300 Principal Investigators
~300 Post Doctoral Research Staff

Leading academics:

9 Fellows of the Royal Society
46 Fellows of the Royal Society of Edinburgh
10 RSE Young Academy / Global Academy Members

Numerous Personal Research Fellowships:

19 Royal Society
5 Royal Society of Edinburgh
15 Marie Curie
12 Chancellor's / Leadership Fellowships
>30 Other

Major Awards:

2018 Knighthood: Sir Jim Hough
2013 Nobel Prize: Peter Higgs

Research Performance during SUPA II (2010-2017):

37 European Research Council grants
£381M of collaborative grant income
£233M of non-collaborative grant income
~2,000 publications each year

Science Policy:

Chief Scientific Advisor, Scottish Government: Sheila Rowan
STFC Council: Richard Kenway, Sheila Rowan
STFC Science Board:
Peter Clarke, Christine Davies, Rory Duncan, Paul McKenna
EPSRC Strategic Advisory Group: Ifor Samuel
Chief Scientific Advisor, Food Standards Scotland: Norval Strachan



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