

Who are we?

Committee is diverse with members from **academia** and **industry**

Dr Jack Henderson – Chair

Dr Kara Lynch – Secretary

Dr Liam Gaffney – Treasurer

Dr Iain Darby – Member

Dr David Lee – Member

Dr Andrew Petts – Member

Dr Rachel Montgomery – Member

Dr Liliana Teodorescu – Member

Dr Philippos Papadakis – Member

Dr Daniel Pittman-Weymouth - Member

Miss Bethany Slingsby– Member

Miss Hannah Gill – Early Career Physicist

What does the IOP Nuclear Physics Group Committee Do?

Supports conferences and workshops organised by group members – this year's budget (April onwards) being developed.

Half-day event £500 (£750 for more than one group)

One-day event* £1000 (£1500 for more than one group)

No additional funding for multi-day events

Events organised by the group *cannot receive support if there is a registration fee*

External events can also be supported, roughly in line with the above levels, but with additional support for multiple days

Total budget for group events should be comparable to that for external events

Supports early career researchers through the awards of **ECR prize**, **thesis prize** and **student conference prizes**.

IOP has small pots of money for ECRs to attend conferences, do outreach etc.

Have a look here <https://www.iop.org/about/support-grants#gref>

Funding for events

Half-day event £500 (£750)
One-day event* £1000 (£1500)

Contact jack.henderson@surrey.ac.uk or liam.gaffney@liverpool.ac.uk

2025 sponsored events (~£21k):

- ECR Forum (Manchester)
- Perspectives in Nuclear Data (Glasgow)
- AI in Nuclear Physics and Applications (IoP, London)
- R3B Meeting (York)
- BridgCE Meeting and School (York)
- UK Nuclear Science Forum (Harwell Campus)
- HYPATIA Science Workshop (IoP, London)
- FAUST Science Workshop (IoP, London)
- Nuclear Physics in Plasma Environments (IoP, London)

2026 (~£15k) – group and external events

- ECR Forum (Brighton) Exotic hadron spectroscopy
- NP2050 Meeting (London) ePIC international meeting
- Neutron detectors (TBC) STFC summer school
- Radiation detectors, R&D and Commercialisation (TBC) BridgCE
- Active targets (York?) Cluster-26
- ePIC ECR event
- New windows on fundamental physics

Early career researcher prize

Nuclear Physics Early Career Researcher Prize

This annual prize is for a promising early career scientist who has made an outstanding contribution to nuclear physics.

Deadline November (announcement in September)

Open to researchers in experimental or theoretical nuclear physics in fundamental or applied areas.

<6 years post doctoral experience or 10 years since start of first employment.

Nomination form and supporting statement from referee.

Nominations now handled through IoP web interface.

Thesis prize

Nuclear Physics Thesis Prize

A new prize awarded annually for exceptional work carried out as part of a PhD thesis project in the field of nuclear physics. The winner receives £250.

Deadline November (announcement in September)

Open to individuals who have received their PhD in the 12-month period prior to the deadline (exceptions can be made at the group's discretion).

Nominations for physicists work in applied or industrial nuclear physics welcome.

Nomination and supporting statement from referee.

Nominations now handled through IoP web interface.

IoP Conferences

2025: University of Manchester – 23rd – 25th April 2025

2026: University of Brighton – 13th - 15th April 2025, **Chair:** Alison Bruce

Future conferences:

2027: University of Birmingham

2028: University of Glasgow (Joint HEPP/APP)

2029: University of the West of Scotland



New initiative
UK Nuclear Data 2026: A Renaissance

Conference co-organized with IoP Nuclear Industry Group (Chair: Andrew Petts)

Bring together stakeholders (industry and national labs), researchers and funders for a conference on UK nuclear data requirements and capabilities

September 8th-10th 2026 at the Institute of Physics building (London) – save the date

Goal is to keep costs low and (if possible) offer student support – important to have a strong STFC turnout and (especially) ECRs

Organizing committee from multiple institutions:

University of Surrey, EDF, NPL, UKAEA, UKNNL, AWE, University of Manchester, University of Glasgow, University of Cambridge, University of York, University of Lancaster, ...

New initiative UK Nuclear Data 2026: A Renaissance

Conference co-organized with IoP Nuclear Industry Group (Chair: Andrew Petts)

Key topics: Nuclear data...

... pipeline(s),

... for nuclear (fission) power reactors

... for fusion and the novel technology

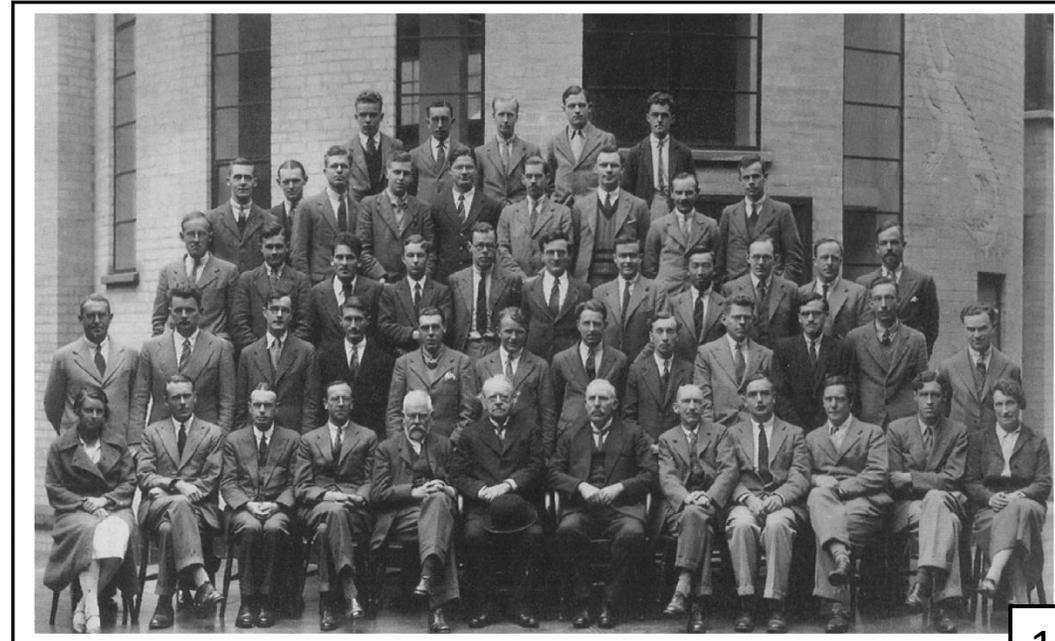
... for astrophysics and fundamental physics,

... for space and earth applications,

Experimental methods

Applications of nuclear theory

Modern methods in data processing



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Will include a poster session and focus will be on UK-based invited speakers

New initiative: A vision for UK Nuclear Physics in 2050

What opportunities might exist in 10+ years time?

Are there routes for nuclear physics to develop using next generation facilities outside of traditional accelerator laboratories?

Can nuclear physics help bridge the gap between new facilities and other national challenges?

What *national capabilities* might exist?

Being led by Philippos Papadakis and JH

Sixteen(ish) fellows and recently appointed academics being consulted. Kick-off meeting in late August. Meeting post-CG to discuss opportunities.

Hope to have a presentation ready for the community in time for the IoP in Brighton...

New initiative: A vision for UK Nuclear Physics in 2050

What opportunities might exist in 10+ years time?

Four themes (w/ grey areas in between)

Next-generation ISOL (reactors, ISIS upgrades, ...)

Laser-induced beams (photospallation, laser-driven beams, CLARA/UK-FEL, ...)

Astro and underground (Boulby, storage rings, ...)

Next generation methods (AI/ML, nuclear theory, quantum technology/sensors, ...)

Many of these are happening anyway, important that UK-NP has a voice in decision making

Thank you!