



**IOP Nuclear Physics Group Committee****Who are we?**

Committee is diverse with members from **academia** and **industry** both in the UK and internationally.

**Dr Jack Henderson** – Chair

**Dr Kara Lynch** – Secretary

**Dr Stefanos Paschalis** – Treasurer

**Dr Liam Gaffney** – Member

**Dr David Lee** – Member

**Dr Andrew Petts** – Member

**Dr Rachel Montgomery** – Member

**Dr Lee Packer** - Member

**Dr Philippos Papadakis** – Member

**Dr Daniel Pittman-Weymouth** - Member

**Miss Bethany Slingsby**– Member

**Miss Hannah Gill** – Early Career Physicist

**Five committee positions up for election in 2025:**

1x Treasurer

4x Ordinary members

### **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.

#### **Events organised by a single group:**

Half-day event £500

One-day event\* £1000

Multi-day conference £1000 for the first day, plus £500 for each additional day

#### **Joint events organised by more than one group:**

Half-day event £750

One-day event\* £1500

Multi-day conference £1500 for the first day, plus £750 for each additional day

**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)

Multi-day conference £1000 (£1500) for the first day, plus £500 (£750) for each additional day

Contact [jack.henderson@surrey.ac.uk](mailto:jack.henderson@surrey.ac.uk) and Stefanos Paschalis [stefanos.paschalis@york.ac.uk](mailto:stefanos.paschalis@york.ac.uk)

### 2024 sponsored events (~£19k):

IOP Joint NP, HEPP, APP conference – Liverpool

Nuclear Physics Summer School

R-Matrix school – Edinburgh

NSTAR meeting – York

Anapole Moments mini-workshop – York

UK-EIC meeting – York

BridgeCE - Surrey

ECR event (January 2025) – Edinburgh

### 2025 (~£25k):

*ECR Forum*

*Nuclear Physics in Plasma  
Environments*

R3B Meeting

BridgeCE

Plunger meeting

*HYPATIA Science workshop*

*FAUST science workshop*

*Perspectives in nuclear data*

*AI in nuclear physics and applications*

WOSMIPX

UK Nuclear Science Forum

**IoP Nuclear Physics Conference\***

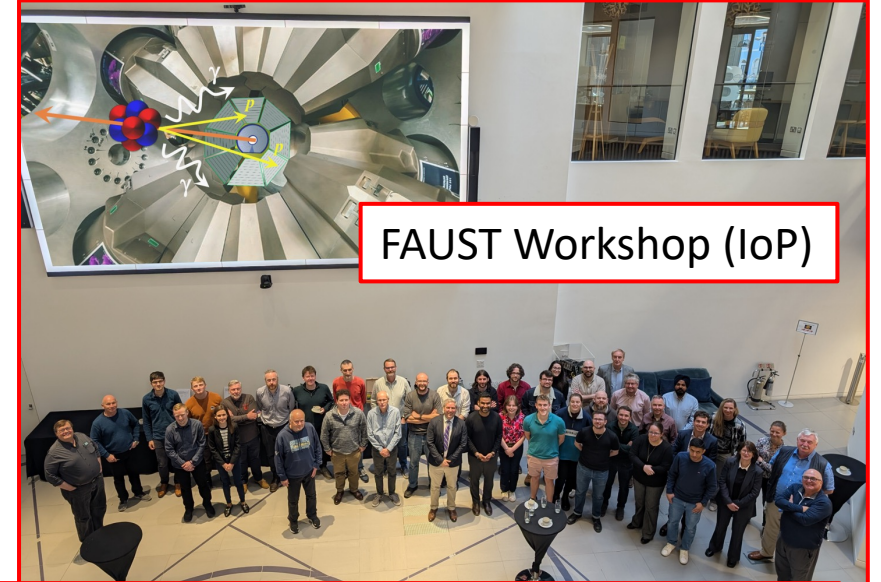
ECR Forum (Manchester)



ECR event (Edinburgh)

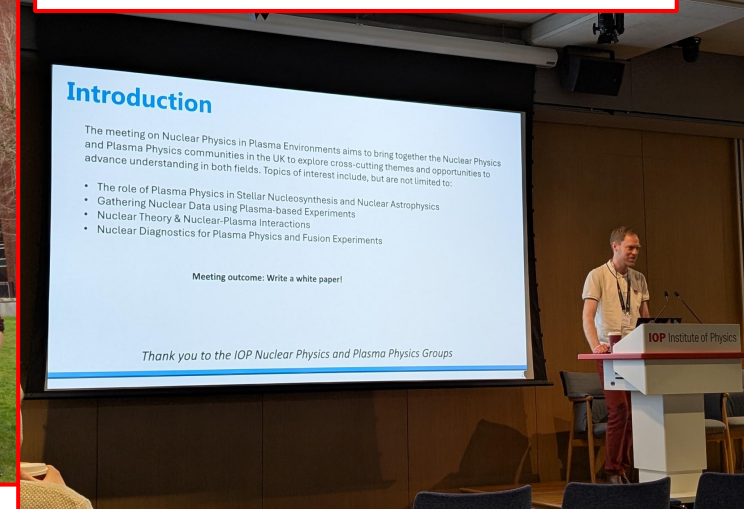


Funding for events



FAUST Workshop (IoP)

Nuclear & Plasma Physics (IoP)



Nuclear Reactions (Manchester)



Hadron ECR event (Glasgow)



## Budget

The IoP has been going through a re-evaluation of its budget envelopes due to changes in the funding environment

Still keen to support events through the special interest groups and local branches

### **But:**

In future we will have to be stricter on balance between “group events” and “external events”

For small events with no fee, the distinction is minor (group events should use IoP conference services, and must be accessible to all IoP members)

For group events *with a fee* (i.e., this conference) the group can no longer offer support from its budget – PhD students and ECRs are **strongly encouraged** to use the IoP support/grants programme (<https://www.iop.org/about/support-grants>)

When communicating your event, please indicate as early as possible whether it might be suitable as a group event

## 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

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.

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**2025 Winner – Ragandeep Singh Sidhu (University of Surrey)**

*For his outstanding contributions to innovative experiments at storage rings for the advancement of nuclear astrophysics research*

## 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

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.

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### 2025 Winner – Magda Satrazani (University of Liverpool)

*Gamma-ray spectroscopy of neutron-rich cerium isotopes following beta-decay of mass-separated caesium ions*

*Supervisor: Dr. Liam Gaffney*

## IoP Conferences

**2026:** University of Brighton – Week of the 13<sup>th</sup> of April 2026, **Chair:** Alison Bruce

Future order (tentative):

**2027:** University of Birmingham

**2028:** University of Glasgow (Joint HEPP/APP)

**2029:** University of the West of Scotland

**2030:** University of Edinburgh

# Nuclear Physics Conference 2025

**23–25 April 2025**

University of Manchester, UK



## Future initiative? Nuclear Data

**Initial discussions** with Energy and Nuclear Industry groups regarding a joint workshop on *nuclear data*

Aim to improve interactions between communities and potentially develop new routes to funding sources

Likely first event to occur in 2026 – potential for IoP written report on the importance of nuclear data to energy and security

Interested parties, please get in touch

**Future initiative? Next Generation**

**What opportunities might exist in 10+ years time? How can they be used to support (or be supported by) nuclear physics?**

Examples: Vulcan, STEP, etc.

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 (nuclear data, nuclear medicine)?

Can we develop a white-paper describing the opportunities?

## Bubble Chamber Cup



**Nuclear Physics (+ UCL) team** entered the HEPP bubble chamber cup

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Won the tournament (without conceding)

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Don't expect to be invited back...

**Thank you!**