IOP Institute of Physics

Nuclear Physics Group

IOP Institute of Physics
Nuclear Physics Group

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
Mr Malik Salaam - Member
Miss Bethany Slingsby– Member
Miss Hannah Gill – Early Career Physicist

IOP Institute of Physics
Nuclear Physics Group

Event Funding

What does the IOP Nuclear Physics Group Committee Do?

Supports conferences and workshops organised by group members – have applied for £12k for next years events.

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

IOP Institute of Physics
Nuclear Physics Group

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 and Stefanos Paschalis stefanos.paschalis@york.ac.uk

2023 sponsored events

IOP NPG conference – York

Early Career Researcher Forum – IoP

Charge plunger workshop – UWS

Quantum effects near threshold – Edinburgh

Symposium on Direct reactions with hydrogen targets – York

HIE ISOLDE Workshop – IoP

QFS-RB23 – York

2024 funding: £19k

IOP Joint NP, HEPP, APP conference – Manchester

Nuclear Physics Summer School – D. Sharp & R. Montgomery

R-Matrix school – Edinburgh

UK-EIC meeting – York, S. Fegan

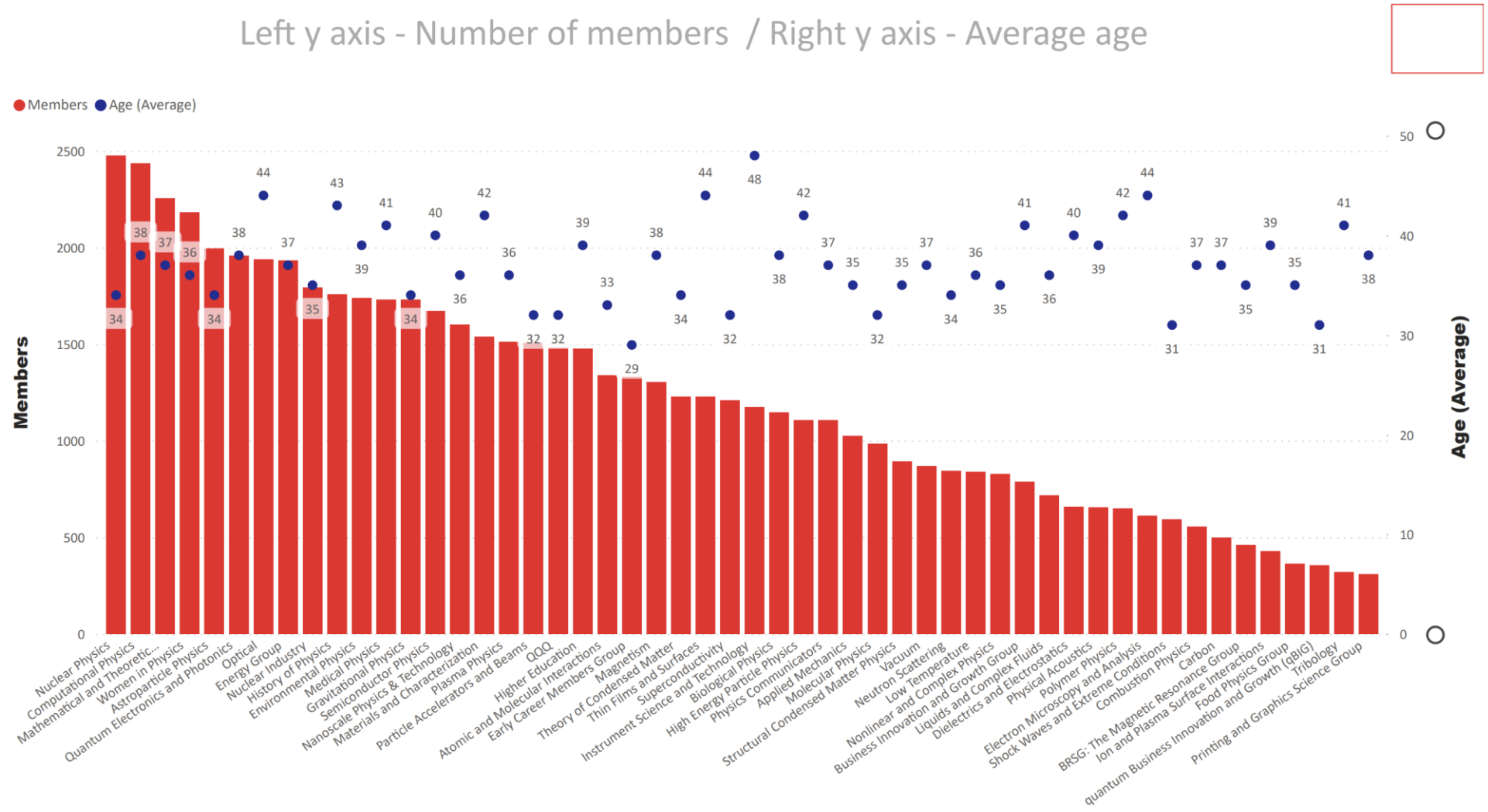
Anapole Moments mini-workshop – York, J. Dobaczewski

Some funding newly available – contact me!

IOP | Institute of Physics

Nuclear Physics Group

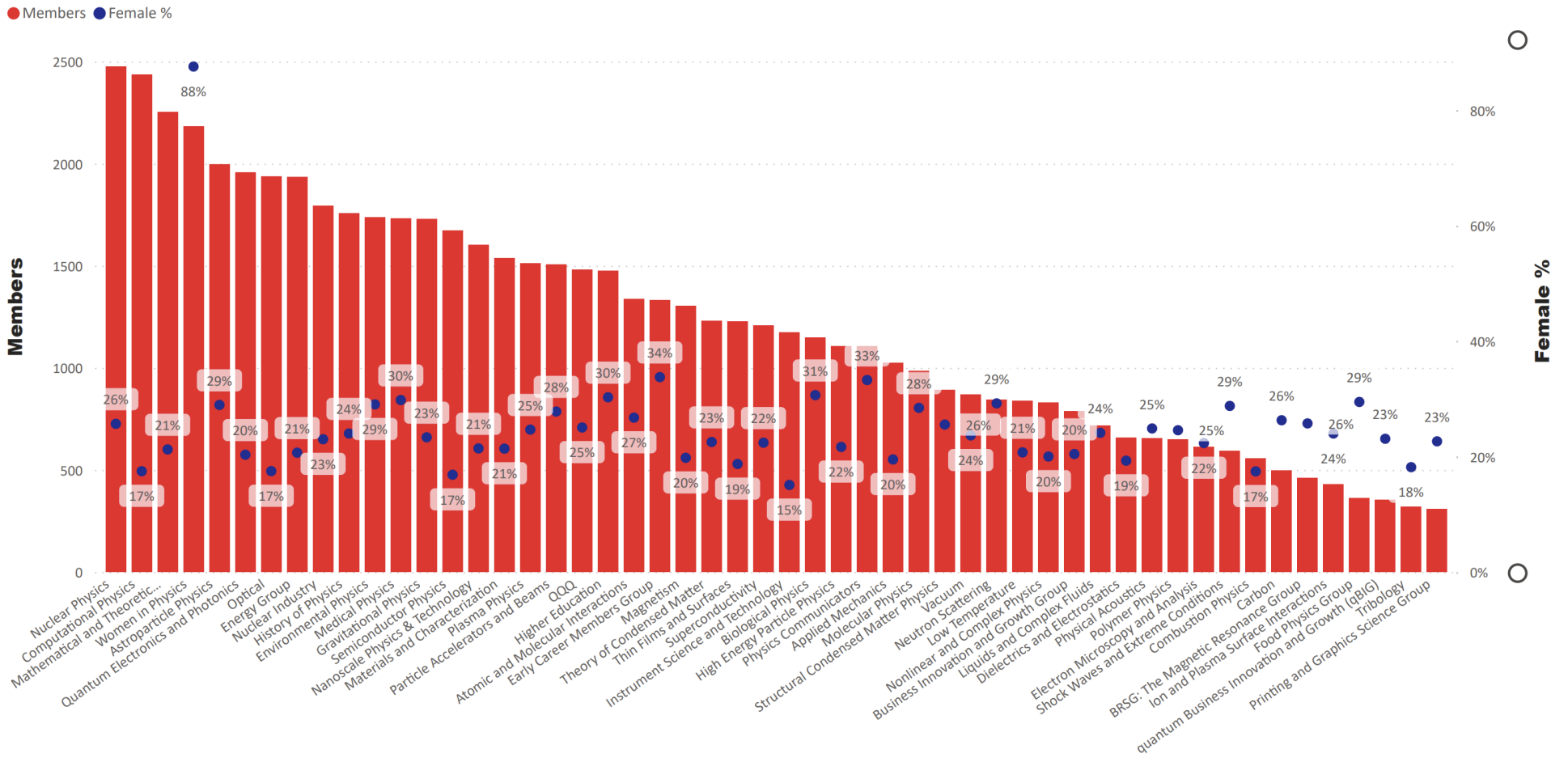
Membership



IOP Institute of Physics
Nuclear Physics Group

Membership

Left y axis - Number of members / Right y axis - % of female



IOP Institute of Physics
Nuclear Physics Group

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.

https://www.iop.org/physics-community/special-interest-groups/nuclear-physics-group/early-career-researcher-prize

IOP Institute of Physics
Nuclear Physics Group

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.

2023 Winner: Matthew Williams (University of Surrey)

Developing novel experimental techniques to study astrophysical reactions that inform about the nature of the earliest stars and explosive astrophysical environments, as well as establishing a leading role in the SECAR project at the premier rare isotope beam facility, FRIB.

Prize talk next year

https://www.iop.org/physics-community/special-interest-groups/nuclear-physics-group/early-career-researcher-prize

IOP Institute of Physics
Nuclear Physics Group

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.

https://www.iop.org/physics-community/special-interest-groups/nuclear-physics-group/early-career-researcher-prize

IOP Institute of Physics
Nuclear Physics Group

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.

2023 Winner: Jordan Marsh (University of Edinburgh)

First Nuclear Reaction Measurements using the CARME array

This thesis reports on the commissioning of the new CRYRING Array for Reaction Measurements (CARME). Measurements at rings have unique challenges. To keep the ions circulating, extreme levels of vacuum are required, hard to achieve even with empty vacuum chambers. Here, a novel procedure was devised to allow all instrumentation required to be placed in this extreme vacuum without compromising it, an extremely challenging task and in itself a major achievement. As ring experiments become mainstream, this thesis will become the reference to design new detection arrays at low-energy rings.

https://www.iop.org/physics-community/special-interest-groups/nuclear-physics-group/early-career-researcher-prize

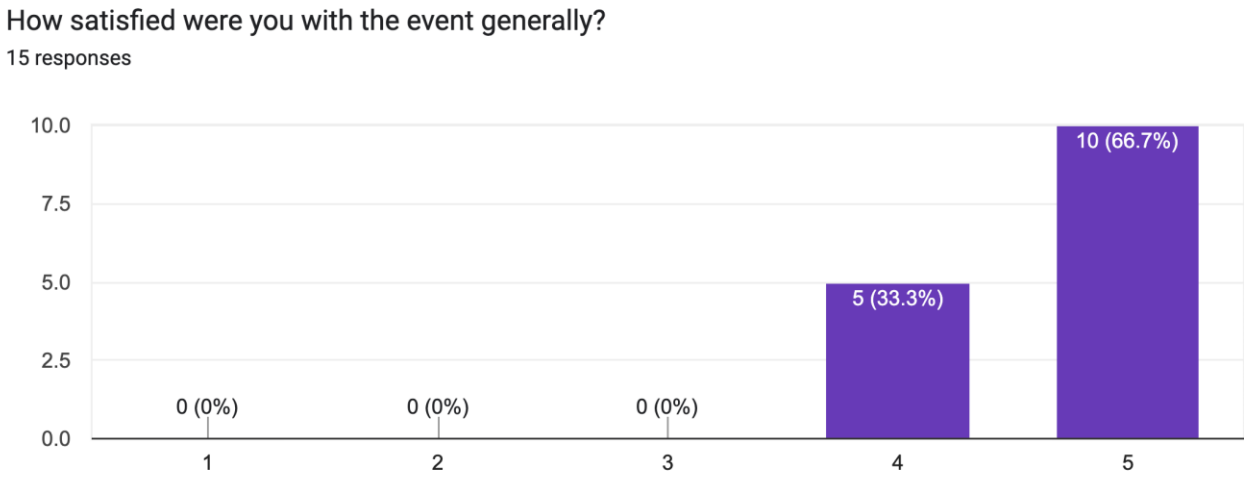
IOP Institute of Physics
Nuclear Physics Group

ECR Forum 2023

Third ECR Forum event, held at the IoP in October 2023

Focus on frontiers of nuclear physics and career paths:
Stefanos Paschalis (York)
Mikhail Bashkanov (York)
Gemma Wilson (UKAEA)
Peter Martin (Bristol)
Thomas Henry (EDF)
Thomas Henry (EDF)
Kara Lynch (Manchester)

Thirteen contributed talks from attendees



Future events to be held alongside the IoP conference

IOP Institute of Physics
Nuclear Physics Group

25 YEARS OF EPJ.org
your physics journal

Young Researcher Meeting Grant

IOP Institute of Physics
Nuclear Physics Group

Outreach requests

New Instagram and LinkedIn accounts (being) set up

Monthly requests for short, personable lay-updates to be posted to accounts – photo + paragraph

Volunteers for future outreach activities organized by local IoP branches always welcome – the group is trying to maintain an up-to-date database

IOP Institute of Physics
Nuclear Physics Group

IoP NP 2025

IOP Institute of Physics
Nuclear Physics Group

IoP NP 2025

University of Manchester – 23rd – 25th April 2025

Chair: David Sharp

MANCHESTER 1824
The University of Manchester

Thank you!