

Welcome to the

# UK Nuclear Physics Community Meeting

Institute of Physics, 37 Caledonian Road, London, N1 9BU  
10th and 11th January 2023

## **Organizing Committee**

- Andrew Boston (University of Liverpool)
- Jacek Dobaczewski (University of York)
- Liam Gaffney (University of Liverpool)
- David Ireland (University of Glasgow)
- Robert Page (University of Liverpool)
- David Sharp (University of Manchester)
- John Simpson (Daresbury Laboratory)
- John F. Smith (University of the West of Scotland)

## **Website**

<https://indico.stfc.ac.uk/event/680/>

# Attendance

<b>Affiliation</b>	<b>Number of attendees</b>
University of Birmingham	1
University of Brighton	1
Brunel University	1
University of Cambridge	1
Daresbury Laboratory	3
University of Derby	1
University of Edinburgh	3
University of Glasgow	2
Lancaster University	1
Univrstity of Liverpool	7
University of Manchester	5
Mirion	4
Sheffield Hallam University	1
STFC	6
University of Surrey	8
UWS	3
University of York	8
<b>Total</b>	<b>56</b>

## Day 1: Tuesday 10th January 2023

### **Session 1 (12.30 - 14.25)**

Chair: John Simpson

- 12.30 - 12.45 *Welcome and Update on Nuclear Physics Forum*  
John Smith (University of the West of Scotland) [10+5]
- 12.45 - 13.25 *Report from STFC Programmes Directorate*  
Mark Thomson (STFC) [25+15]
- 13.25 - 13.40 *Report from Nuclear Physics Advisory Panel*  
Jacek Dobaczewski (Chair of NPAP, University of York) [10+5]
- 13.40 - 13.55 *Report from NuPECC*  
Rodi Herzberg (University of Liverpool) [10+5]
- 13.55 - 14.10 *Report from Nuclear Physics Grants Panel*  
Kieran Flanagan (Chair of NPGP, University of Manchester) [10+5]
- 14.10 - 14.25 *Report from Cross Community Committee*  
Carlo Bruno (University of Edinburgh) [10+5]
- 14.25 - 15.00 Coffee break

**Session 2 (15.00 - 17.25)**

Chair: Alison Bruce

- 15.00 - 15.20 *Report from EPSRC Nuclear Community*  
Malcolm Joyce (University of Lancaster) [15+5]
- 15.20 - 15.35 *Update on IOP Nuclear Physics Group Committee*  
David Sharp (University of Manchester) [10+5]
- 15.35 - 15.50 *Update on Early Career Research Forum*  
Jack Henderson (University of Surrey) [10+5]
- 15.50 - 16.05 *Nuclear Education/Graduate School/Summer Schools*  
David Joss (University of Liverpool) [10+5]
- 16.05 - 16.20 *Report on the Nuclear Physics Summer School 2022*  
Dan Doherty (University of Surrey) [10+5]
- 16.20 - 16.35 *Binding Blocks UK: public and schools engagement in nuclear physics*  
Christian Diget (University of York) [10+5]
- 16.35 - 17.25 General Discussion [50]

**Day 2: Wednesday 11th January 2023**

**Session 3 (09.00 - 10.40)**

Chair: David Ireland

09.00 - 09.20 *ELDAR - burning questions on the origin of elements in the lives and deaths of stars*  
Carlo Bruno (University of Edinburgh) [15+5]

09.20 - 09.40 *Nuclear structure under extreme conditions*  
Esra Yuksel (University of Surrey) [15+5]

09.40 - 10.00 *Microscopic description of nuclear reactions from two- and three-nucleon interactions*  
Matteo Vorabi (University of Surrey) [15+5]

10.00 - 10.20 *Structure and astrophysics with gamma beams at HlyS*  
Robin Smith (Sheffield Hallam University) [15+5]

10.20 - 10.40 *The K-Long facility*  
Mikhail Bashkanov (University of York) [15+5]

10.40 - 11.00 Coffee break

**Session 4 (11.00 - 13.00)**

Chair: Robert Page

11.00 - 11.20 *Update on the AGATA Project*

Michael Bentley (University of York) [15+5]

11.20 - 11.40 *Update on the EIC R&D Project*

Peter Jones (University of Birmingham) [15+5]

11.40 - 12.00 *LEGEND*

Andrew Boston (University of Liverpool) [15+5]

12.00 - 12.20 *Highlights and future plans with the ISOLDE Solenoidal Spectrometer*

David Sharp (University of Manchester), Liam Gaffney (University of Liverpool) [15+5]

12.20 - 13.00 General discussion [40]

13.00 Close of meeting

# Reception and Dinner at the German Gymnasium Grand Café

1 King's Blvd, London N1C 4BU

On Tuesday 10th January 2023

Reception at 6pm sponsored by **Mirion Technologies Ltd**

Followed by dinner at 7pm.



The German Gymnasium is 8 minutes walk from the Institute of Physics.



BOOK A TABLE

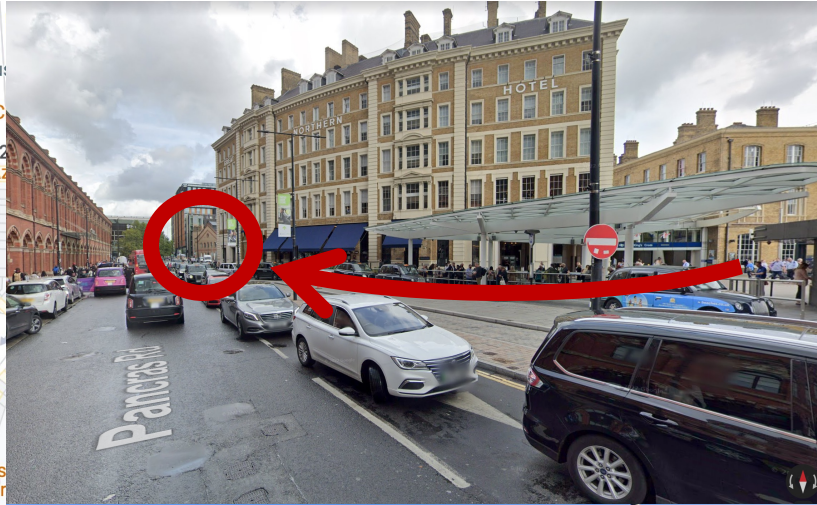
GERMAN GYMNASIUM



WILLKOMMEN



# German Gymnasium Walking Route



# The Nuclear Physics Forum

- Developed out of the Gamma-ray User Group (GRUG) in 2005.
- Four Chairs in 17 years
  - Dave Cullen 2005 – 2007 (4 meetings)
  - Rodi Herzberg 2007 – 2014 (8 meetings)
  - David Ireland 2014 – 2018 (6 meetings)
  - Dave Joss 2018 – 2022 (2 meetings)
- Meetings typically every four months.
- Minutes and agendas at <http://nuclearphysicsforum.com>
- Since Summer 2022 Chair: JFS; Secretary: Liam Gaffney

# **Nuclear Physics Forum: Terms of Reference**

- (1) To provide an interchange of information between the nuclear-physics groups within the UK by reporting informally on the status of current projects.
- (2) To disseminate information on the coordination and submission of grant proposals to the various funding agencies.
- (3) To discuss the future directions of nuclear physics within the UK.
- (4) Where appropriate, to act as a voice of the UK nuclear-physics community at international facilities and in international collaborations.
- (5) Where appropriate, to put forward UK representatives for international committees and groups.

# Nuclear Physics Forum: Plans

- Feedback was requested in summer 2022 about frequency, format, and location of meetings and agenda items.
- Status reports about major projects and facilities.
- Physics presentations at the meetings from PhD students/PDRAs.
- A clear relationship with the IOP Nuclear Physics Group.
- Updates on ECR development and opportunities.
- Oversight of the Nuclear Physics Graduate School.
- Regular standing meetings diarised in advance.
- Three meetings per year including the January community meeting.
- In-person attendance encouraged with online option available.

## Nuclear Physics Forum: dates of future meetings

<b>Day</b>	<b>Date</b>	<b>Year</b>	<b>Venue</b>
Tues./Weds.	10th/11th January	2023	IOP, London
Wednesday	10th May	2023	Daresbury?
Friday	8th September	2023	UWS London Campus?
Tues./Weds.	9th/10th January	2024	TBC
Wednesday	8th May	2024	TBC
Friday	6th September	2024	TBC
Tues./Weds.	7th/8th January	2025	TBC
Wednesday	7th May	2025	TBC
Friday	5th September	2025	TBC
Tues./Weds.	13th/14th January	2026	TBC
Wednesday	13th May	2026	TBC
Friday	11th September	2026	TBC

## In summary

- The Nuclear Physics Forum will meet three times per year
- Feedback would be welcomed on all aspects of the Forum.

## Feedback

will be requested after the present meeting

<https://forms.gle/Dz2karJQrdvbGz6M8>