



UK Nuclear Activity

April 2026 Issue 153

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Newsletter archive: <http://npg.dl.ac.uk/OutreachNewsletter/index.html>

Nuclear Physics Public Engagement Website: [NuclearPhysicsForYou](#)

IoP Support and grants: <https://www.iop.org/about/support-grants>

1. Nuclear Physics Publications for April*

If you are publishing a paper that you think would be of media value, please contact [Wendy Ellison](#), STFC Press Officer. She can help with press releases and publicity. If you get in touch with her before publication, she can also get material ready in advance for the day of publication.

Phys. Rev. Lett. **136** 152501 (2026) (<https://doi.org/10.1103/r6ns-yvw8>)

Collapse of Nuclear Collectivity along the $N=Z$ Line

M. A. Bentley *et al.*

Published 17 April 2026

Phys. Lett. B **876** 140391 (2026) (<https://doi.org/10.1016/j.physletb.2026.140391>)

Precision tests of isospin symmetry through Coulomb excitation of $A=62$ nuclei

K. Wimmer *et al.*

Published 9 April 2026

Phys. Rev. C **113** 044321 (2026) (<https://doi.org/10.1103/wj4z-r1vq>)

Mass spectrometry of ^{75}Zn ground and isomeric states from in-trap decay of ^{75}Cu

M. Müller *et al.*

Published 27 April 2026 (Editor's Suggestion)

Phys. Rev. C **113** 044304 (2026) (<https://doi.org/10.1103/1gt6-nc12>)

Anomalous quadrupole transition probabilities in the $f_{7/2}$ mirror nuclei

R. Escudeiro *et al.*

Published 3 April 2026

Phys. Rev. C **113** 044309 (2026) (<https://doi.org/10.1103/yt44-ky4x>)

Spectroscopy of ^{209}Ac and ^{207}Ac

H. Kokkonen *et al.*

Published 13 April 2026

Phys. Rev. C **113** 044317 (2026) (<https://doi.org/10.1103/5rxb-bscn>)

Production and decay properties of the lightest osmium isotopes

A. D. Briscoe *et al.*

Published 22 April 2026

Phys. Rev. C **113** 044621 (2026) (<https://doi.org/10.1103/fkfd-ctqq>)

Energy-differential measurement of the $^{\text{nat}}\text{C}(n,p)$ and $^{\text{nat}}\text{C}(n,d)$ reactions at the n_TOF facility at CERN

P. Žugec *et al.*

Published 24 April 2026

Phys. Rev. C **113** 044905 (2026) (<https://doi.org/10.1103/5bdl-cry6>)

Measurement of the angle between jet axes in Pb-Pb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV

S. Acharya *et al.* (ALICE Collaboration)

Published 13 April 2026

Phys. Rev. C **113** 045207 (2026) (<https://doi.org/10.1103/h197-l9dw>)

Baryon–antibaryon photoproduction cross sections off the proton

F. Afzal *et al.* (GLUOX Collaboration)

Published 13 April 2026

Eur. Phys. Journal A **62** 83 (2026) (<https://doi.org/10.1140/epja/s10050-026-01814-7>)

Constraining r-process nucleosynthesis via enhanced accuracy neutron-capture experiments

C. Domingo-Pardo, C. Lederer-Woods, A. Mengoni

Published 27 April 2026

Acta Phys. Pol. B Proc. Suppl. **19** 1-A9 (2026) (<https://www.actaphys.uj.edu.pl/S/19/1-A9/pdf>)

Is ^{40}Mg a Borromean halo nucleus? A case built on the electric-dipole response

J. Singh *et al.*

Published 31 March 2026

J. High Energ. Phys. **2026** 113 (2026) ([https://doi.org/10.1007/JHEP04\(2026\)113](https://doi.org/10.1007/JHEP04(2026)113))

Space-time evolution of particle emission in p–Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with 3D kaon femtoscopy

S. Acharya *et al.* (ALICE Collaboration)

Published 15 April 2026

*Also includes missed publications from previous months

2. News to Report

a. 2026 IoP Nuclear Physics Conference

The [2026 IoP Nuclear Physics Conference](#) was held at the University of Brighton between the 13th and 15th of April and was attended by over 150 participants. The 12 invited talks covered topics ranging from nuclear fusion to medical applications of radioactive beams to astrophysics and to experimental and theoretical studies of nuclear and nucleon

structure. They included a presentation by Dr Ragandeep Singh Sidhu from the University of Surrey who won the IoP Nuclear Physics Group Early Career Researcher Prize in 2024. A new feature this year was the selection of some contributed abstracts to be presented as short talks in the plenary sessions and this was well received with the majority of those selected being early-career researchers. A poster session of ~45 posters was held at the end of the first day in conjunction with a networking

reception. The poster prizes were won by Dr Luke Tetley (University of York) and Miriam Davies (University of Surrey). A feature of the conference was the active and enthusiastic participation of many young researchers and this bodes well for the future of our subject.

The conference was sponsored by Caen, IoP, JCS nuclear technologies, Micron semiconductor Ltd. , Mirion technologies, Rapiscan and the STFC and included the annual STFC town hall which was attended by an STFC team including the STFC Executive Chair Prof. Michele Dougherty.

Contribution from Alison Bruce, University of Brighton

b. ECR Forum held in Brighton

The 5th early-career researcher (ECR) forum was held in Brighton on the 16th April 2026. The forum ran as a satellite event to the UK nuclear physics IOP conference and was well attended with over 60 people registered. The morning sessions included a range of talks, focussing on the future tools and techniques to

be used in nuclear physics as well as the use of nuclear physics in industry. In the afternoon there were selected talks from ECRs who had presented posters at the IOP conference, and a EDI talk focussing on the Athena Swan Charter given by Dr Lisa Morrison from the University of Surrey.

The day ended with a forum to gather opinions on how future ECR Forums should run. The organisers would like to thank all those who attended.



Contribution from Jacob Heery, University of Surrey

3. Outreach Activity

4. Media Interactions