



UK Nuclear Activity

March 2026 Issue 152

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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 March*

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.

Nat. Comm. **17** 2585 (2026) (<https://doi.org/10.1038/s41467-025-67795-1>)
Observation of partonic flow in proton—proton and proton—nucleus collisions.
ALICE Collaboration
Published 20 March 2026

Sci. Rep. (2026) (<https://doi.org/10.1038/s41598-026-44426-3>)
High precision measurements of the hyperfine structure of Vanadium ions in the ultraviolet range
A. Karadimas *et al.*
Published 16 March 2026

Phys. Lett. B **875** 140365 (2026) (<https://doi.org/10.1016/j.physletb.2026.140365>)
Decay properties of new isotopes ^{235}Bk and ^{231}Am
J. G. Wang *et al.*
Published 17 March 2026

Phys. Lett. B **875** 140315 (2026) (<https://doi.org/10.1016/j.physletb.2026.140315>)
Deformation of the 0^+ states in ^{110}Cd from low-energy Coulomb excitation
K. Wrzosek-Lipska *et al.*
Published 28 February 2026

Phys. Lett. B **875** (2026) 140299 (<https://doi.org/10.1016/j.physletb.2026.140299>)
Investigating charm quark energy loss in medium with the nuclear modification factor of D0-tagged jets
ALICE Collaboration., S. Acharya et al.
Published 12 March

Phys. Rev. C **113** 034303 (2026) (<https://doi.org/10.1103/5rny-7zbk>)
Evidence of the ${}^9\text{B}(1/2^+)$ state in the ${}^{12}\text{C}(p,\alpha){}^9\text{B}$ reaction
A. D. Brooks et al.
Published 2 March 2026

Phys. Rev. C **113** 034620 (2026) (<https://doi.org/10.1103/d4hg-rgx3>)
High-precision α -induced cross sections and half-life measurements for terbium radioisotopes produced using natural europium
R. R. Trinder *et al.*
Published 27 March 2026

Phys. Rev. C **113** 034623 (2026) (<https://doi.org/10.1103/9t93-1z1r>)
Nonmonotonic-potential description of polarization effects, fusion, and nuclear rainbows in elastic scattering of ${}^6\text{Li}+{}^{12}\text{C}$ at 4.5-600 MeV
M. Sujan Islam *et al.*
Published 31 March 2026

Prog. of Theor. and Exp. Physics **2026** 033D06 (<https://doi.org/10.1093/ptep/ptag036>)
Exploration of Neutron-Rich Isotopes around $N = 50$ via the In-Flight Fission of a 345 MeV/Nucleon ${}^{238}\text{U}$ Beam
Y. Shimizu *et al.*
Published 20 February 2026

Phys. Rev. C **113** 034910 (2026) (<https://doi.org/10.1103/7qxy-fz41>)
Effect of recoils on soft-drop-groomed observables in γ -tagged jets in a multistage approach
Y. Tachibana *et al.*
Published 12 March 2026

Acta Phys. Pol. B Proc. Suppl. **19** 1-A2 (2026) (<https://doi.org/10.5506/APhysPolBSupp.19.1-A2>)
Single-step Quantum Simulation of Two Nucleons
Bhoomika Maheshwari, Paul Stevenson, and P. Van Isacker
Published 31 March 2026

Acta Phys. Pol. B Proc. Suppl. **19** 1-A7 (2026) (<https://doi.org/10.5506/APhysPolBSupp.19.1-A7>)
Thermal effects on stellar neutron capture reactions using a quantum dynamical model
N. Lightfoot, A. Diaz-Torres, and P. Stevenson
Published 31 March 2026

*Also includes missed publications from previous months

2. News to Report

a. Upcoming event: Radiation Detector R&D and Commercialisation

A one-day workshop is being organised to provide discussions and networking opportunities in radiation detector development and commercialisation. It will be

held at the University of Liverpool on the 23rd of June. The goal is to bring together members of the academic, national laboratory and commercialisation communities to allow for contacts to be made and for future projects to be started. Registration and a workshop website will be available in the coming weeks on the IOP Conferences page.

The event is being organised by the IOP nuclear physics group. Attendance will be free for IOP members, with a nominal fee for non-members to cover event expenses.

Contribution from Jack Henderson, University of Surrey.

3. Outreach Activity

4. Media Interactions

