

UK Nuclear Activity

February 2026 Issue 151

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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 February*

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.

*Also includes missed publications from previous months

Phys. Rev. Lett. **136** 082503 (2026) (<https://doi.org/10.1103/6cjc-bhfg>)
Discovery of an $I^\pi=10^+$ Isomer in ^{150}Yb : Nature of the Longest 10^+ Isomeric Chain
W. Q. Zhang *et al.*
Published 26 February 2026

Phys. Lett. B **874** 140227 (2026) (<https://doi.org/10.1016/j.physletb.2026.140227>)
Study of the interaction between Ξ baryons and light mesons via femtoscopy at the LHC
ALICE Collaboration, I.J. Abualrob *et al.*
Published 21 February 2026

Phys. Lett. B **874** 140253 (2026) (<https://doi.org/10.1016/j.physletb.2026.140253>)
Multiplicity dependence of $K^*(892)^\pm$ production in pp collisions at $\sqrt{s}=13$ TeV
ALICE Collaboration, I.J. Abualrob *et al.*
Published 24 February 2026

Phys. Lett. B **874** 140252 (2026) (<https://doi.org/10.1016/j.physletb.2026.140252>)

Measurement of the p - Σ^+ correlation function in pp collisions at $\sqrt{s} = 13$ TeV

ALICE Collaboration, I.J. Abualrob et al.

Published 27 February 2026

Phys. Rev. C **113** 024306 (2026) (<https://doi.org/10.1103/4q99-rv67>)

Electromagnetic moments of ground and excited states calculated in heavy odd- N open-shell nuclei

J. Dobaczewski *et al.*

Published 5 February 2026

Phys. Rev. C **113** 024307 (2026) (<https://doi.org/10.1103/2dtq-q465>)

Lifetime measurements in ^{165}W and the spin evolution of $E2$ transition strength

T. Milanović *et al.*

Published 5 February 2026

Phys. Rev. C **113** 024907 (2026) (<https://doi.org/10.1103/nvyy-kxhd>)

Transport-based initial conditions for heavy-ion collisions at finite densities

H. Roch *et al.* (JETSCAPE Collaboration)

Published 13 February 2026

Eur. Phys. J. A **62** 33 (2026) (<https://doi.org/10.1140/epja/s10050-026-01788-6>)

Radiative neutron capture cross section of ^{242}Pu measured at n_TOF-EAR1 in the unresolved resonance region up to 600 keV

n_TOF Collaboration

Published 20 February 2026

Eur. Phys. J. A **62** 25 (2026) (<https://doi.org/10.1140/epja/s10050-025-01769-1>)

The Advanced Plunger-Particle detector Array - APPA

E. Uusikylä *et al.*

Published 3 February 2026

Eur. Phys. J. C **86** 76 (2026) (<https://doi.org/10.1140/epjc/s10052-025-15205-7>)

Multiplicity dependence of $f_0(980)$ production in pp collisions at $\sqrt{s} = 13$ TeV

ALICE Collaboration

Published 26 January 2026

Eur. Phys. J. C **86** 101 (2026) (<https://doi.org/10.1140/epjc/s10052-025-15095-9>)

Σ^+ production in pp collisions at $\sqrt{s} = 13$ TeV

ALICE Collaboration

Published 2 February 2026

Eur. Phys. J. C **86** 132 (2026) (<https://doi.org/10.1140/epjc/s10052-025-15129-2>)

Anti- Σ^\pm production in pp and p-pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE

ALICE Collaboration

Published 9 February 2026

J. Phys. G: Nucl. Part. Phys. **53** 025103 (2026) (<https://doi.org/10.1088/1361-6471/ae42d8>)

Coulomb energy differences in 9B using a molecular model

A. D. Brooks et al.

Published 27 February 2026

Discov. Quantum Sci. **2** 6 (2026) (<https://doi.org/10.1007/s44464-026-00009-9>)

A low-circuit-depth quantum computing approach to the nuclear shell model

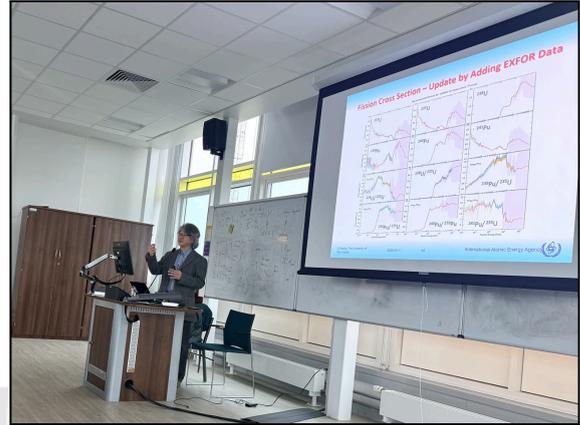
Chandan Sarma and Paul Stevenson

Published 17 February 2026

2. News to Report

a. Seminar on “Introduction to IAEA Nuclear Data Services”

On February 11, 2026, the Nuclear Physics Group at the University of Manchester (UoM) hosted a successful hybrid seminar featuring senior Nuclear Data Physicist Dr. Naohiko Otsuka [Nuclear Data Section International Atomic Energy Agency (NDS-IAEA), Vienna]. His talk, “Introduction to IAEA Nuclear Data Services,” explored how the NDS-IAEA advances global nuclear research through coordinated data development efforts, highlighting the worldwide impact and applications of the EXFOR experimental reaction library and related nuclear data projects. The seminar was delivered in a hybrid format, making it accessible to a wider UK audience, and was well received.



Contribution from Jagjit Singh and Frank Browne (The University of Manchester)

3. Outreach Activity

4. Media Interactions