



UK Nuclear Activity

January 2026 Issue 150

In this issue,

1. [Nuclear Physics Publications for January](#)
2. [News to Report](#)
3. [Outreach Activity](#)
4. [Media Interactions](#)

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 January*

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

Communications Physics **9** 1 (2026) (<https://doi.org/10.1038/s42005-025-02458-7>)
Background-free $^{12}\text{C}(\alpha, \gamma)$ angular distribution measurements with a time projection chamber operating in Gamma beams
K. C. Z. Haverson *et al.*
Published 6 January 2026

Phys. Rev. Lett. **136** 032302 (2026) (<https://doi.org/10.1103/l36g-6f46>)
Long-Range Transverse-Momentum Correlations and Radial Flow in Pb-Pb Collisions at the LHC
S. Acharya *et al.* (ALICE Collaboration)
Published 22 January 2026

Phys. Rev. Lett. **136** 022701 (2026) (<https://doi.org/10.1103/25tk-nctn>)
First Results on the Search for Lepton Number Violating Neutrinoless Double- β Decay with the LEGEND-200 Experiment
H. Acharya *et al.* (LEGEND Collaboration)
Published 16 January 2026

Phys. Lett. B **872** 140084 (2026) (<https://doi.org/10.1016/j.physletb.2025.140084>)

Fusion of $^{12}\text{C}+^{28}\text{Si}$ at deep sub-barrier energies

A. M. Stefanini *et al.*

Published 16 December 2025

Phys. Rev. C **113** 014325 (2026) (<https://doi.org/10.1103/swd1-ydlm>)

Search for β -delayed fission of $^{178}\text{Au}^{g,m}$ and an updated systematics in the region of neutron-deficient nuclei

B. Andel *et al.*

Published 26 January 2026

Eur. J. Phys. A **62** 18 (2026) (<https://doi.org/10.1140/epja/s10050-025-01778-0>)

Lifetimes and electromagnetic transition strengths in ^{162}Er

D. Kocheva *et al.*

Published 25 January 2026

Eur. J. Phys. A **62** 17 (2026) (<https://doi.org/10.1140/epja/s10050-025-01776-2>)

Evidence for an isomeric $\pi\frac{1}{2}^+$ [411] state in ^{183}Ta

S. Doshi *et al.*

Published 23 January 2026

Eur. J. Phys. A **62** 10 (2026) (<https://doi.org/10.1140/epja/s10050-025-01783-3>)

First sub-MeV nuclear reaction measurements in a heavy-ion storage ring

J. J. Marsh *et al.*

Published 19 January 2026

Eur. J. Phys. A **62** 5 (2026) (<https://doi.org/10.1140/epja/s10050-025-01767-3>)

New measurement of ^{50}Cr and ^{53}Cr (n, γ) cross sections at n_TOF: a call for chromium nuclear data revision

P. Perez-Maroto *et al.*

Published 12 January 2026

Eur. J. Phys. A **62** 1 (2026) (<https://doi.org/10.1140/epja/s10050-025-01754-8>)

The study of ^{110}Cd with the (n,n' γ) reaction revisited

P. E. Garrett *et al.*

Published 7 January 2026

Nucl. Instr. and Meth. A **1085** 171233 (2026) (<https://doi.org/10.1016/j.nima.2025.171233>)

Simulation and analysis of an AmBe source

F. Falezza *et al.*

13 December 2025

2. News to Report

3. Outreach Activity

4. Media Interactions