



UK Nuclear Activity

September 2023 Issue 122

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

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

1. Nuclear Physics Publications for September*

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.

Physical Review Letters **131** 102302 (2023) (<https://doi.org/10.1103/PhysRevLett.131.102302>)
Measurement of the Lifetime and Λ Separation Energy of $^3_{\Lambda}\text{H}$
S. Acharya *et al.* (ALICE Collaboration)
Published 5 September 2023

Physical Review C **108** 034003 (2023) (<https://doi.org/10.1103/PhysRevC.108.034003>)
Landau sum rules with noncentral quasiparticle interactions
D. Davesne, J. W. Holt, J. Navarro, and A. Pastore
Published 28 September 2023

Physical Review C **108** 034601 (2023) (<https://doi.org/10.1103/PhysRevC.108.034601>)
Structure studies of ^{13}Be from the $^{12}\text{Be}(d,p)$ reaction in inverse kinematics on a solid deuteron target
J. Koor *et al.*
Published 1 September 2023

Physical Review C **108** 034906 (2023) (<https://doi.org/10.1103/PhysRevC.108.034906>)
Measurement of electrons from beauty-hadron decays in pp and Pb-Pb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV
S. Acharya *et al.* (ALICE Collaboration)
Published 15 September 2023

Physical Review C **108** 035807 (2023) (<https://doi.org/10.1103/PhysRevC.108.035807>)
Confirmation of a new resonance in ^{26}Si and contribution of classical novae to the galactic abundance of ^{26}Al
L. Canete *et al.*
Published 14 September 2023

European Physical Journal A **59** 198 (2023) (<https://doi.org/10.1140/epja/s10050-023-01111-7>)
Photo-response of the N=Z nucleus ^{24}Mg
J. Deary *et al.*
Published 7 September 2023

European Physical Journal A **59** 199 (2023) (<https://doi.org/10.1140/epja/s10050-023-01103-7>)
Interpretation of metastable states in the N > 70 Zr region
F. Browne *et al.*
Published 8 September 2023

European Physical Journal A **59** 208 (2023) (<https://doi.org/10.1140/epja/s10050-023-01081-w>)
PANDORA Project for the study of photonuclear reactions below A=60
A. Tamii *et al.*
Published 11 September 2023

European Physical Journal A **59** 213 (2023) (<https://doi.org/10.1140/epja/s10050-023-01100-w>)
Agata characterisation and pulse shape analysis
A. J. Boston *et al.*
Published 15 September 2023

European Physical Journal A **59** 217 (2023) (<https://doi.org/10.1140/epja/s10050-023-01123-3>)
Measurement of the helicity asymmetry E for the $\gamma p \rightarrow p \pi^0$ reaction in the resonance region
C. W. Kim *et al.* (CLAS Collaboration)
Published 26 September 2023

Physical Review C **108** 034303 (2023) (<https://doi.org/10.1103/PhysRevC.108.034303>)
 α decay of the neutron-deficient isotope ^{190}At
A. N. Andreyev *et al.*
Published 1 September 2023

Applied Radiation and Isotopes **201** 111028 (2023) (<https://doi.org/10.1016/j.apradiso.2023.111028>)
A plastic scintillator and HPGe $\beta - \gamma$ coincidence detection system
M. A. Goodwin *et al.*
Published 13 September 2023

NIM A **1056** 168597 (2023) (<https://doi.org/10.1016/j.nima.2023.168597>)
Response of the FAst TIMing Array (FATIMA) for DESPEC at FAIR Phase-0
M. M. R. Chishti *et al.*
Published 14 September 2023

European Physical Journal A **59** 153 (<https://doi.org/10.1140/epja/s10050-023-01051-2>)
Study of N = 50 gap evolution around Z = 32: new structure information for ^{82}Ge
D. Thisse *et al.*
Published 11 July 2023

*Also includes missed publications from previous months

2. News to Report

a. IoP Nuclear Physics Group Committee members

Following the recent Institute of Physics elections, we are pleased to introduce the new IoP Nuclear Physics Group committee.

Position	Name
Chair	Jack Henderson
Secretary	Kara Lynch
Treasurer	Stefanos Paschalis
Ordinary Member	Malik Salaam
Ordinary Member	Liam Gaffney
Ordinary Member	Philippos Papadakis
Ordinary Member	Rachel Montgomery
Ordinary Member	Lee Packer
Ordinary Member	Bethany Slingsby

Ordinary Member	Andrew Petts
Ordinary Member	David Lee
Ordinary Member	Hannah Gill

b. Joint APP, HEPP and NP Conference 2024 Liverpool

The 2024 IoP conference will be held in Liverpool, and organised jointly with the astroparticle physics and high-energy physics communities. The website is now live: <https://iop.eventsair.com/app-hepp-np2024/>

The local organisers for nuclear physics are Rodi Herzberg and Ellis Rintoul.

3. Outreach Activity

4. Media Interactions

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