



UK Nuclear Activity

February 2022 Issue 104

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

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

[Nuclear Physics Outreach Poster](#) – order hardcopies from STFC free of charge [here](#)

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. C **105**, L022201 (<https://doi.org/10.1103/PhysRevC.105.L022201>)

Polarized structure function σ_{LT} from π^0_p electroproduction data in the resonance region at $0.4\text{GeV}^2 < Q^2 < 1.0\text{GeV}^2$

E. L. Isupov *et al.* (CLAS Collaboration)

Published 18 February 2022

Phys. Rev. C **105**, 024302 (<https://doi.org/10.1103/PhysRevC.105.024302>)

γ -ray spectroscopy of low-lying yrast and non-yrast states in neutron-rich $^{94,95,96}\text{Kr}$

R.-B. Gerst *et al.*

Published 3 February 2022

Phys. Rev. C **105**, 024308 (<https://doi.org/10.1103/PhysRevC.105.024308>)

Multiprobe study of excited states in ^{12}C : Disentangling the sources of monopole strength between the energy of the Hoyle state and $E_x=13$ MeV

K. C. W. Li *et al.*

Published 14 February 2022

Phys. Rev. C **105**, 024323 (<https://doi.org/10.1103/PhysRevC.105.024323>)

Coulomb excitation of ^{222}Rn

P. Spagnoletti *et al.*

Published 22 February 2022

Phys. Rev. C **105**, 024325 (<https://doi.org/10.1103/PhysRevC.105.024325>)
Evolution of shape and collectivity along the Ge isotopic chain: The case of ^{80}Ge
D. Rhodes *et al.*
Published 22 February 2022

Phys. Rev. C **105**, 024618 (<https://doi.org/10.1103/PhysRevC.105.024618>)
Constraints on the dipole photon strength for the odd uranium isotopes
J. Moreno-Soto *et al.* (n_TOF Collaboration)
Published 24 February 2022

Phys. Rev. C **105**, 025805 (<https://doi.org/10.1103/PhysRevC.105.025805>)
 $^{92}\text{Zr}(n,\gamma)$ and (n,tot) measurements at the GELINA and n_TOF facilities
G. Tagliente *et al.* (n_TOF Collaboration)
Published 24 February 2022

2. News to Report

a. Three Minute Wonder Open for Entries!



The Three Minute Wonder is the IOP's UK and Ireland-wide science communication competition, it challenges researchers to explain their work to the public in just three minutes. The competition is designed for early career researchers and/or project team

members working on any physics-related problem in academia, business and/or industry. The aim is to bring cutting edge physics-related research to life for the general public. To find out more and enter visit www.iop.org/3MW. Closing date for applications in the South West, South Central and Wales regions is Friday 3rd April, details closing dates for other regions varies and is detailed on the IOP website.

The South West, South Central and Wales heat will take place on Wednesday 13th April at 2pm at the University of Bristol, for other regions this may vary. Contact details for the organisers of each heat can be found online.

*Contribution by Chantal Nobs
IOP South Central Branch Committee Chair*

3. Outreach Activity

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4. Media Interactions

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