



UK Nuclear Activity

May 2019 Issue 71

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1. Nuclear Physics Publications for May*

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.

Phys. Rev. C **99**, 055504 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.055504>

Identification of nuclear effects in neutrino and antineutrino interactions on nuclei using generalized final-state correlations

[X. Lu](#) and [J.T. Sobczyk](#)

Published 21 May 2019

Phys. Rev. C **99**, 054625 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054625>

Constraining spectroscopic factors near the r-process path using combined measurements:

$^{86}\text{Kr}(d,p)^{87}\text{Kr}$

D. Walter, S. D. Pain, J. A. Cizewski, F. M. Nunes, S. Ahn, T. Baugher, D. W. Bardayan, T. Baumann, D. Bazin, S. Burcher, K. A. Chipps, G. Cerizza, K. L. Jones, R. L. Kozub, S. J. Lonsdale, B. Manning, F. Montes, P. D. O'Malley, S. Ota, J. Pereira, A. Ratkiewicz, P. Thompson, C. Thornsberry, and S. Williams

Published 24 May 2019

*Also includes missed publications from previous months

Phys. Rev. C **99**, 054617 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054617>

Isomer yield ratios in ^{184}Re from the $^9\text{Be} + ^{181}\text{Ta}$ reaction

G. S. Li (李广顺), Y. D. Fang (方永得), A. Diaz-Torres, M. L. Liu (柳敏良), N. T. Zhang (张宁涛), X. H. Zhou (周小红), Y. H. Zhang (张玉虎), J. G. Wang (王建国), B. S. Gao (高丙水), Y. H. Qiang (强赞华), S. Guo (郭松), S. C. Wang (王思成), Z. Y. Zhang (张志远), J. F. Huang (黄吉峰), K. L. Wang (王凯龙), Y. Zheng (郑勇), and S. Mukherjee

Published 16 May 2019

Phys. Rev. C **99**, 054615 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054615>

Comparative study of the effect of resonances of the weakly bound nuclei $^{6,7}\text{Li}$ on total fusion with light to heavy mass targets

A. Gómez Camacho, A. Diaz-Torres, and H. Q. Zhang

Published 15 May 2019

Phys. Rev. C **99**, 054332 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054332>

Microscopic structure of coexisting 0^+ states in ^{68}Ni probed via two-neutron transfer

F. Flavigny^{1,2}, J. Elseviers², A. N. Andreyev^{3,4}, C. Bauer⁵, V. Bildstein⁶, A. Blazhev⁷, B. A. Brown⁸, H. De Witte², J. Diriken^{2,9}, V. N. Fedosseev¹⁰, S. Franchoo¹, R. Gernhäuser¹¹, M. Huyse², S. Ilieva⁵, S. Klupp¹¹, Th. Kröll⁵, R. Lutter¹¹, B. A. Marsh¹⁰, D. Mücher^{6,11}, K. Nowak¹¹, T. Otsuka^{12,13,14,2}, J. Pakarinen^{15,16,17}, N. Patronis¹⁸, R. Raabe², F. Recchia¹⁹, P. Reiter⁷, T. Roger²⁰, S. Sambi², M. Seidlitz⁷, M. D. Seliverstov^{2,10,21}, B. Siebeck⁷, Y. Tsunoda¹⁴, P. Van Duppen², M. Vermeulen³, M. Von Schmid⁵, D. Voulot¹⁰, N. Warr⁷, F. Wenander¹⁰, and K. Wimmer^{8,*}

Published 31 May 2019

Phys. Rev. C **99**, 054327 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054327>

Nuclear electromagnetic dipole response with the self-consistent Green's function formalism

Francesco Raimondi and Carlo Barbieri

Published 24 May 2019

Phys. Rev. C **99**, 054326 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054326>

New spectroscopic information on $^{211,213}\text{Tl}$: A changing structure beyond the $N=126$ shell closure

A. Gottardo^{1,2,*}, J. J. Valiente-Dobón¹, G. Benzoni³, A. I. Morales³, A. Gadea⁴, S. Lunardi^{2,5}, P. Boutachkov⁶, A. M. Bruce⁷, M. Górska⁶, J. Grebosz⁸, S. Pietri⁶, Zs. Podolyák⁹, M. Pfützner¹⁰, P. H. Regan⁹, D. Rudolph¹¹, H. Weick⁶, J. Alcántara Núñez¹², A. Algora⁴, N. Al-Dahan⁹, G. de Angelis¹, Y. Ayyad¹², N. Alkhomashi¹³, P. R. P. Allegro¹⁴, D. Bazzacco⁵, J. Benlliure¹⁵, M. Bowry⁹, A. Bracco^{3,16}, M. Bunce⁷, F. Camera^{3,16}, E. Casarejos¹⁷, M. L. Cortes⁶, F. C. L. Crespi³, A. Corsi^{3,16}, A. M. Denis Bacelar⁷, A. Y. Deo⁹, C. Domingo-Pardo⁶, M. Doncel¹⁸, Zs. Dombradi¹⁹, T. Engert⁶, K. Eppinger²⁰, G. F. Farrelly⁹, F. Farinon⁶, H. Geissel⁶, J. Gerl⁶, N. Goel⁶, E. Gregor⁶, T. Habermann⁶, R. Hoischen^{6,11}, R. Janik²¹, S. Klupp²⁰, I. Kojouharov⁶, N. Kurz⁶, S. M. Lenzi^{2,5}, S. Leoni^{3,16}, S. Mandal²², R. Menegazzo⁵, D. Mengoni⁵, B. Million³, D. R. Napoli¹, F. Naqvi^{6,23}, C. Nociforo⁶, A. Prochazka⁶, W. Prokopowicz⁶, F. Recchia⁵, R. V. Ribas¹⁴, M. W. Reed⁹, E. Sahin¹, H. Schaffner⁶, A. Sharma⁶, B. Sitar²¹, D. Siwal²², K. Steiger²⁰, P. Strmen²¹, T. P. D. Swan⁹, I. Szarka²¹, C. A. Ur⁵, P. M. Walker^{9,24}, O. Wieland³, H.-J. Wollersheim⁶, F. Nowacki²⁵, and E. Maglione²⁶

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Phys. Rev. C **99**, 054325 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054325>

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Shape coexistence in Hg

[C. Müller-Gatermann](#)^{1,*}, [A. Dewald](#)¹, [C. Fransen](#)¹, [K. Auranen](#)^{2,†}, [H. Badran](#)², [M. Beckers](#)¹, [A. Blazhev](#)¹, [T. Braunroth](#)¹, [D. M. Cullen](#)³, [G. Fruet](#)⁴, [A. Goldkuhle](#)¹, [T. Grahn](#)², [P. T. Greenlees](#)², [A. Herzán](#)^{5,6,2}, [U. Jakobsson](#)^{7,2}, [D. Jenkins](#)⁸, [J. Jolie](#)¹, [R. Julin](#)², [S. Juutinen](#)², [J. Konki](#)^{2,†}, [M. Leino](#)², [J. Litzinger](#)¹, [K. Nomura](#)⁹, [J. Pakarinen](#)², [P. Peura](#)^{10,2}, [M. G. Procter](#)³, [P. Rahkila](#)², [P. Ruotsalainen](#)^{11,2}, [M. Sandzelius](#)², [J. Sarén](#)², [C. Scholey](#)², [J. Sorri](#)^{12,2}, [S. Stolze](#)^{2,†}, [M. J. Taylor](#)^{13,3}, [J. Uusitalo](#)², and [K. O. Zell](#)¹

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Phys. Rev. C **99**, 054317 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054317>

Inverse odd-even staggering in nuclear charge radii and possible octupole collectivity in 217,218,219

At revealed by in-source laser spectroscopy

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Phys. Rev. C **99**, 054307 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054307>

156 158
Fine structure in the α decay of Lu and Ta

[E. Parr](#)^{1,*}, [R. D. Page](#)¹, [D. T. Joss](#)¹, [F. A. Ali](#)^{1,†,‡}, [K. Auranen](#)^{2,§}, [L. Capponi](#)^{3,4,||}, [T. Grahn](#)², [P. T. Greenlees](#)², [J. Henderson](#)^{5,¶}, [A. Herzán](#)^{6,2}, [U. Jakobsson](#)², [R. Julin](#)², [S. Juutinen](#)², [J. Konki](#)^{2,**}, [M. Labiche](#)⁷, [M. Leino](#)², [P. J. R. Mason](#)⁷, [C. McPeake](#)¹, [D. O'Donnell](#)^{1,††}, [J. Pakarinen](#)², [P. Papadakis](#)¹, [J. Partanen](#)², [P. Peura](#)², [P. Rahkila](#)², [J. P. Revill](#)¹, [P. Ruotsalainen](#)², [M. Sandzelius](#)², [J. Sarén](#)², [C. Scholey](#)², [J. Simpson](#)⁷, [J. F. Smith](#)^{3,4}, [M. Smolen](#)^{3,4}, [J. Sorri](#)^{2,§§}, [S. Stolze](#)^{2,§}, [A. Thornthwaite](#)¹, and [J. Uusitalo](#)²

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Phys. Rev. C **99**, 054306 <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.054306>

48 249
Fusion reaction Ca+ Bk leading to formation of the element Ts (Z=117)

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Phys. Rev. Lett. **122**, 172502 <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.122.172502>

Direct Observation of Proton-Neutron Short-Range Correlation Dominance in Heavy Nuclei

[M. Duer](#)¹, [A. Schmidt](#)², [J. R. Pybus](#)², [E. P. Segarra](#)², [A. Hrnjic](#)², [A. W. Denniston](#)², [R. Weiss](#)³, [O. Hen](#)^{2,*}, [E. Piaseczky](#)¹, [L. B. Weinstein](#)⁴, [N. Barnea](#)³, [I. Korover](#)^{4§}, [E. O. Cohen](#)¹, [H. Hakobyan](#)⁵, [S. Adhikari](#)¹⁷, [Giovanni Angelini](#)¹⁹, [M. Battaglieri](#)²³, [A. Beck](#)^{2,†}, [I. Bedlinskiy](#)²⁷, [A. S. Biselli](#)^{15,9}, [S. Boiarinov](#)⁴¹, [W. Brooks](#)⁵, [V. D.](#)

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Phys. Rev. Lett. **122**, 192502 <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.122.192502>
Laser Spectroscopy of Neutron-Rich Tin Isotopes: A Discontinuity in Charge Radii across the N=82 Shell Closure

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Phys. Rev. Lett. **122**, 212502 <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.122.212502>

Proton Shell Evolution below ¹³²Sn: First Measurement of Low-Lying β -Emitting Isomers in ^{123,125}Ag

Z. Q. Chen¹, Z. H. Li^{1,*}, H. Hua^{1,†}, H. Watanabe^{2,3}, C. X. Yuan⁴, S. Q. Zhang¹, G. Lorusso^{3,5,6}, S. Nishimura³, H. Baba³, F. Browne^{3,7}, G. Benzoni⁸, K. Y. Chae⁹, F. C. L. Crespi^{8,10}, P. Doornenbal³, N. Fukuda³, G. Gey^{3,11,12}, R. Gernhäuser¹³, N. Inabe³, T. Isobe³, D. X. Jiang¹, A. Jungclaus¹⁴, H. S. Jung^{15,16}, Y. Jin¹, D. Kameda³, G. D. Kim¹⁷, Y. K. Kim^{17,18}, I. Kojouharov¹⁹, F. G. Kondev²⁰, T. Kubo³, N. Kurz¹⁹, Y. K. Kwon¹⁷, X. Q. Li¹, J. L. Lou¹, G. J. Lane²¹, C. G. Li¹, D. W. Luo¹, A. Montaner-Pizá²², K. Moschner²³, C. Y. Niu¹, F. Naqvi²⁴, M. Niikura²⁵, H. Nishibata²⁶, A. Odahara²⁶, R. Orlandi^{27,28}, Z. Patel⁶, Zs. Podolyák⁶, T. Sumikama³, P.-A. Söderström³, H. Sakurai³, H. Schaffner¹⁹, G. S. Simpson¹¹, K. Steiger¹³, H. Suzuki³, J. Taprogge^{3,14,29}, H. Takeda³, Zs. Vajta^{3,30}, H. K. Wang³¹, J. Wu^{1,20}, A. Wendt²³, C. G. Wang¹, H. Y. Wu¹, X. Wang¹, C. G. Wu¹, C. Xu¹, Z. Y. Xu^{25,32}, A. Yagi²⁶, Y. L. Ye¹, and K. Yoshinaga³³

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<https://www.sciencedirect.com/science/article/pii/S0168900219301962>

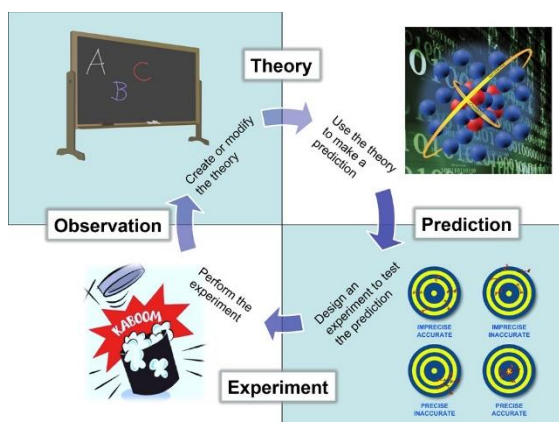
NEDA—NEutron Detector Array

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2. News to Report

a. Upcoming Nuclear Physics Symposium “Challenges in theory of heavy nuclei”



This Symposium will celebrate the Honorary Degree that the University of York will confer on Witek Nazarewicz. The award ceremony will take place on 17 July 2019 at 10am, and the Symposium will thus start with a lunch on that day and finish with a lunch on 20 July. The location of the symposium will be King’s Manor, York.

There will be a registration fee for the Symposium of 120 GBP, which will cover four lunches, morning and afternoon coffee breaks, and the Symposium dinner on Friday night. For credit card payments, please use the University of York [online shop](#). No on-site cash payments or bank transfers are available.

Please [register for the Symposium here](#). More info can be found on the [Symposium web page](#).

*Contribution by Jacek Dobaczewski
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b. ND2019: International Conference on Nuclear Data for Science and Technology held in Beijing, China

A number of UK-based nuclear researchers attended the ND2019 conference held 19-24 May 2019 in Beijing, China. This conference,

held every three years, is the largest in the field of Nuclear Data and attracts around 500 attendees from around the world.

In addition to representation from The University of Manchester, UKAEA, Isis, Wood, and AWE, a number of UK researchers based at overseas institutions were also present.



Tobias Wright (University of Manchester) presenting.



Tim Ware (Wood) presenting, with Mark Gilbert (UKAEA) chairing.

The next edition of this conference will be held in 2022 in Oakland, California.

*Contribution by James Benstead
(AWE)
james.benstead@awe.co.uk*

3. Outreach Activity

Exotic Nuclei: On the Edge of Existence

On 15th May, Marina Petri (University of York) delivered a public talk at the IOP Headquarters on the topic of [Exotic Nuclei](#).

The talk was well received by around 100 attendees.

*Contribution by Marina Petri
(University of York)*

4. Media Interactions

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