PHYSICAL REVIEW C™

For editorial and subscription correspondence, please see inside front cover
(ISSN: 2469-9985)

PERIODICALS
Postmaster send address changes to:

PHYSICAL REVIEW C
APS Subscription Services
P.O. Box 41
Annapolis Junction, MD 20701

THIRD SERIES, VOLUME 99, NUMBER 6 ***CONTENTS*** **JUNE 2019**

RAPID COMMUNICATIONS

Nuclear Structure

Ground-state electromagnetic moments of ^{37}Ca *(6 pages)* . . . . . 061301(R)
A. Klose, K. Minamisono, A. J. Miller, B. A. Brown, D. Garand, J. D. Holt, J. D. Lantis, Y. Liu, B. Maaß, W. Nörtershäuser, S. V. Pineda, D. M. Rossi, A. Schwenk, F. Sommer, C. Sumithrarachchi, A. Teigelhöfer, and J. Watkins

Ab initio Gamow in-medium similarity renormalization group with resonance and continuum *(6 pages)* . . . . . 061302(R)
B. S. Hu, Q. Wu, Z. H. Sun, and F. R. Xu

Nuclear Reactions

Search for stabilizing effects of the $Z = 82$ shell closure against fission *(7 pages)* . . . . . 061601(R)
J. Gehlot, S. Nath, Tathagata Banerjee, Ish Mukul, R. Dubey, A. Shamlath, P. V. Laveen, M. Shareef, Md. Moin Shaikh, A. Jhingan, N. Madhavan, Tapan Rajbongshi, P. Jisha, and Santanu Pal

Relativistic Nuclear Collisions

Double-slit experiment at Fermi scale: Coherent photoproduction in heavy-ion collisions *(5 pages)* . . . . . 061901(R)
W. Zha, L. Ruan, Z. Tang, Z. Xu, and S. Yang

How to test path-length dependence in energy-loss mechanisms: Analysis leading to a new observable *(5 pages)* 061902(R)
Magdalena Djordjevic, Dusan Zigic, Marko Djordjevic, and Jussi Auvinen

ARTICLES

Nucleon-Nucleon Interaction, Few-Body Systems

Galilean invariance restoration on the lattice *(11 pages)* 064001
Ning Li, Serdar Elhatisari, Evgeny Epelbaum, Dean Lee, Bingnan Lu, and Ulf-G. Meißner

Nuclear Structure

Role of dynamic pairing correlations in fission dynamics *(6 pages)* 064301
R. Bernard, S. A. Giuliani, and L. M. Robledo

Effects of one valence proton on seniority and angular momentum of neutrons in neutron-rich $^{122-131}_{51}$Sb isotopes *(21 pages)* 064302
S. Biswas *et al.*

Copyright 2019 by American Physical Society

2469-9985(201906)99:6;1-X

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 99, NUMBER 6** **JUNE 2019**

Masses of neutron-rich $^{52-54}$Sc and ^{54,56}Ti nuclides: The $N = 32$ subshell closure in scandium *(6 pages)* 064303
X. Xu, M. Wang, K. Blaum, J. D. Holt, Yu. A. Litvinov, A. Schwenk, J. Simonis, S. R. Stroberg, Y. H. Zhang, H. S. Xu, P. Shuai, X. L. Tu, X. H. Zhou, F. R. Xu, G. Audi, R. J. Chen, X. C. Chen, C. Y. Fu, Z. Ge, W. J. Huang, S. Litvinov, D. W. Liu, Y. H. Lam, X. W. Ma, R. S. Mao, A. Ozawa, B. H. Sun, Y. Sun, T. Uesaka, G. Q. Xiao, Y. M. Xing, T. Yamaguchi, Y. Yamaguchi, X. L. Yan, Q. Zeng, H. W. Zhao, T. C. Zhao, W. Zhang, and W. L. Zhan

Effects of the Coulomb and the spin-orbit interaction in a deformed mean field on the pairing correlations in $N = Z$ nuclei *(14 pages)* 064304
Eunja Ha, Myung-Ki Cheoun, and H. Sagawa

T mixing and decay widths of first two 1^- states in ^{10}B *(3 pages)* 064305
H. T. Fortune

Consistency of two different approaches to determine the strength of a pairing residual interaction in the rare-earth region *(11 pages)* 064306
Nurhafiza M. Nor, Nor-Anita Rezle, Kai-Wen Kelvin-Lee, Meng-Hock Koh, L. Bonneau, and P. Quentin

Predictions of nuclear β-decay half-lives with machine learning and their impact on r-process nucleosynthesis *(7 pages)* 064307
Z. M. Niu (牛中明), H. Z. Liang (梁豪兆), B. H. Sun (孙保华), W. H. Long (龙文辉), and Y. F. Niu (牛一斐)

Microscopic three-cluster study of light exotic nuclei *(10 pages)* 064308
P. Descouvemont

α and triton clustering in ^{35}Cl *(9 pages)* 064309
Yasutaka Taniguchi (谷口 億宇)

Identification of a 6.6 μs isomeric state in ^{175}Ir *(6 pages)* 064310
S. A. Gillespie, A. N. Andreyev, M. Al Monthery, C. J. Barton, S. Antalic, K. Auranen, H. Badran, D. Cox, J. G. Cubiss, D. O'Donnell, T. Grahn, P. T. Greenlees, A. Herzan, E. Higgins, R. Julin, S. Juutinen, J. Klimo, J. Konki, M. Leino, M. Mallaburn, J. Pakarinen, P. Papadakis, J. Partanen, P. M. Prajapati, P. Rahkila, M. Sandzelius, C. Scholey, J. Sorri, S. Stolze, R. Urban, J. Uusitalo, M. Venhart, and F. Weaving

Unified description of pairing and quarteting correlations within the particle-hole-boson approach *(14 pages)* 064311
V. V. Baran and D. S. Delion

β-decay spectroscopy of ^{27}S *(22 pages)* 064312
L. J. Sun (孙立杰) *et al.* (RIBLL Collaboration)

High-resolution, accurate multiple-reflection time-of-flight mass spectrometry for short-lived, exotic nuclei of a few events in their ground and low-lying isomeric states *(21 pages)* 064313
Samuel Ayet San Andrés, Christine Hornung, Jens Ebert, Wolfgang R. Plaß, Timo Dickel, Hans Geissel, Christoph Scheidenberger, Julian Bergmann, Florian Greiner, Emma Haettner, Christian Jesch, Wayne Lippert, Israel Mardor, Ivan Miskun, Zygmunt Patyk, Stephane Pietri, Alexander Pihktelev, Sivaji Purushothaman, Moritz P. Reiter, Ann-Kathrin Rink, Helmut Weick, Mikhail I. Yavor, Soumya Bagchi, Volha Charviakova, Paul Constantin, Marcel Diwisch, Andrew Finlay, Satbir Kaur, Ronja Knöbel, Johannes Lang, Bo Mei, Iain D. Moore, Jan-Hendrik Otto, Ilkka Pohjalainen, Andrej Prochazka, Christophe Rappold, Maya Takechi, Yoshiki K. Tanaka, John S. Winfield, and Xiaodong Xu

Wave functions of 0^+ states in ^{12}Be *(4 pages)* 064314
H. T. Fortune

(Continued)

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 99, NUMBER 6** **JUNE 2019**

Investigation of the $^{14}C + \alpha$ molecular configuration in ^{18}O by means of transfer and sequential decay reaction *(9 pages)* 064315
B. Yang, Y. L. Ye, J. Feng, C. J. Lin, H. M. Jia, Z. H. Li, J. L. Lou, Q. T. Li, Y. C. Ge, X. F. Yang, H. Hua, J. Li, H. L. Zang, Q. Liu, W. Jiang, C. G. Li, Y. Liu, Z. Q. Chen, H. Y. Wu, C. G. Wang, W. Liu, X. Wang, J. J. Li, D. W. Luo, Y. Jiang, S. W. Bai, J. Y. Xu, N. R. Ma, L. J. Sun, D. X. Wang, Z. H. Yang, and J. Chen

Superheavy nuclei in a microscopic collective Hamiltonian approach: The impact of beyond-mean-field correlations on ground state and fission properties *(10 pages)* 064316
Z. Shi, A. V. Afanasjev, Z. P. Li, and J. Meng

Fine structure in the α decay of ^{218}At *(6 pages)* 064317
J. G. Cubiss, A. N. Andreyev, A. E. Barzakh, B. Andel, S. Antalic, T. E. Cocolios, T. Day Goodacre, D. V. Fedorov, V. N. Fedosseev, R. Ferrer, D. A. Fink, L. P. Gaffney, L. Ghys, M. Huyse, Z. Kalaninová, U. Köster, B. A. Marsh, P. L. Molkanov, R. E. Rossel, S. Rothe, M. D. Seliverstov, S. Sels, A. M. Sjödin, M. Stryjczyk, V. L.Truesdale, C. Van Beveren, P. Van Duppen, and G. L. Wilson

^{12}C states populated in $^{10}B + ^{10}B$ reactions *(8 pages)* 064318
D. Jelavić Malenica, M. Milin, S. Blagus, A. Di Pietro, P. Figuera, M. Lattuada, Đ. Miljanić, A. Musumarra, M. G. Pellegriti, L. Prepolec, V. Scuderi, N. Skukan, N. Soić, S. Szilner, D. Torresi, and M. Uroić

From homogeneous matter to finite nuclei: Role of the effective mass *(8 pages)* 064319
Hana Gil, Panagiota Papakonstantinou, Chang Ho Hyun, and Yongseok Oh

First measurement of the $B(E2; 3/2^- \rightarrow 1/2^-)$ transition strength in ^7Be: Testing *ab initio* predictions for $A = 7$ nuclei *(9 pages)* 064320
S. L. Henderson, T. Ahn, M. A. Caprio, P. J. Fasano, A. Simon, W. Tan, P. O'Malley, J. Allen, D. W. Bardayan, D. Blankstein, B. Frentz, M. R. Hall, J. J. Kolata, A. E. McCoy, S. Moylan, C. S. Reingold, S. Y. Strauss, and R. O. Torres-Isea

Emerging collectivity from the nuclear structure of ^{132}Xe: Inelastic neutron scattering studies and shell-model calculations *(17 pages)* 064321
E. E. Peters, A. E. Stuchbery, A. Chakraborty, B. P. Crider, S. F. Ashley, A. Kumar, M. T. McEllistrem, F. M. Prados-Estévez, and S. W. Yates

Renormalizing random-phase approximation by using exact pairing *(14 pages)* 064322
L. Tan Phuc, N. Quang Hung, and N. Dinh Dang

Excited-state quantum phase transitions in systems with two degrees of freedom. III. Interacting boson systems *(14 pages)* 064323
Michal Macek, Pavel Stránský, Amiram Leviatan, and Pavel Cejnar

Intertwined quantum phase transitions in the Zr isotopes *(6 pages)* 064324
N. Gavrielov, A. Leviatan, and F. Iachello

Structure of 0^+ excitations in the mass $A \approx 100$ region: 0_2^+ bands in ^{98}Sr and ^{100}Zr *(9 pages)* 064325
W. Urban, T. Rząca-Urban, J. Wiśniewski, I. Ahmad, A. G. Smith, and G. S. Simpson

Behavior of the collective rotor in nuclear chiral motion *(12 pages)* 064326
Q. B. Chen, N. Kaiser, Ulf-G. Meißner, and J. Meng

Real-time evolution method and its application to the 3α cluster system *(10 pages)* 064327
R. Imai, T. Tada, and M. Kimura

Importance of multicranked configuration mixing for angular-momentum-projection calculations: Study of superdeformed rotational bands in ^{152}Dy and ^{194}Hg *(13 pages)* 064328
Masaki Ushitani, Shingo Tagami, and Yoshifumi R. Shimizu

(Continued)

PHYSICAL REVIEW C THIRD SERIES, VOLUME 99, NUMBER 6 JUNE 2019

Low-energy $M1$ excitations in ^{208}Pb and the spin channel of the Skyrme energy-density functional *(13 pages)* . . . 064329
V. Tselyaev, N. Lyutorovich, J. Speth, P.-G. Reinhard, and D. Smirnov

Spectroscopy and lifetime measurements near the proton drip line: ^{26,27,28}P *(10 pages)* 064330
B. Longfellow, A. Gade, B. A. Brown, D. Bazin, P. C. Bender, M. Bowry, P. D. Cottle, B. Elman, E. Lunderberg, A. Magilligan, M. Spieker, D. Weisshaar, and S. J. Williams

Level density rotational enhancement factor *(5 pages)* 064331
S. M. Grimes, T. N. Massey, and A. V. Voinov

α-cluster structure above double closed shells *(9 pages)* 064332
T. T. Ibrahim, A. C. Merchant, S. M. Perez, and B. Buck

Nuclear Reactions

α scattering cross sections on ^{12}C with a microscopic coupled-channels calculation *(13 pages)* 064601
Yoshiko Kanada-En'yo and Kazuyuki Ogata

Nucleon microscopy in proton-nucleus scattering via analysis of bremsstrahlung emission *(31 pages)* 064602
Sergei P. Maydanyuk, Peng-Ming Zhang, and Li-Ping Zou

Cross section for the neutron radiative capture on ^{173}Lu nuclei *(11 pages)* 064603
A. Ebran, O. Roig, V. Méot, M. Jandel, C. Theroine, E. M. Bond, T. A. Bredeweg, A. Couture, F. M. Nortier, J. M. O'Donnell, W. A. Taylor, J. L. Ullmann, and D. J. Vieira

Half-lives of cluster radioactivity using the modified generalized liquid drop model with a new preformation factor *(6 pages)* 064604
K. P. Santhosh and Tinu Ann Jose

Cross sections for $A(e, e')X$ reactions *(5 pages)* 064605
U. Mosel and K. Gallmeister

Fission of superheavy nuclei: Fragment mass distributions and their dependence on excitation energy *(7 pages)* 064606
N. Carjan, F. A. Ivanyuk, and Yu. Ts. Oganessian

Effect of internal magnetic field on collective flow in heavy ion collisions at intermediate energies *(15 pages)* 064607
Yuliang Sun, Yongjia Wang, Qingfeng Li, and Fuqiang Wang

First microscopic coupled-channels calculation of cross sections for inelastic α scattering off ^{16}O *(10 pages)* 064608
Yoshiko Kanada-En'yo and Kazuyuki Ogata

Measurement and analysis of excitation functions of the residues from $^{12}C + {}^{89}Y$: A major production route for ^{97}Ru *(10 pages)* 064609
Amit Chauhan, Moumita Maiti, and Susanta Lahiri

Direct probing of the cluster structure in ^{12}Be via the α-knockout reaction *(9 pages)* 064610
Mengjiao Lyu, Kazuki Yoshida, Yoshiko Kanada-En'yo, and Kazuyuki Ogata

Change of the shape of mass and charge distributions in fission of Cf isotopes with excitation energy *(10 pages)* 064611
H. Paşca, A. V. Andreev, G. G. Adamian, and N. V. Antonenko

Effects of an induced three-body force in the incident channel of (d, p) reactions *(7 pages)* 064612
M. J. Dinmore, N. K. Timofeyuk, J. S. Al-Khalili, and R. C. Johnson

Elastic scattering of the $^{12}B + {}^{58}Ni$ system at near-barrier energies *(9 pages)* 064613
E. O. N. Zevallos, V. Guimarães, E. N. Cardozo, J. Lubian, R. Linares, R. Lichtenthäler Filho, K. C. C. Pires, O. C. B. Santos, S. Appannababu, E. Crema, J. Alcantara-Núñez, A. L. Lara, Y. S. Villamizar, U. Umbelino, N. Added, M. Assuncao, V. Morcelle, and D. S. Monteiro

(Continued)

PHYSICAL REVIEW C THIRD SERIES, VOLUME 99, NUMBER 6 JUNE 2019

First investigation of hypernuclei in reactions via analysis of emitted bremsstrahlung photons *(24 pages)* 064614
Xin Liu, Sergei P. Maydanyuk, Peng-Ming Zhang, and Ling Liu

Microscopic description of pair transfer between two superfluid Fermi systems. II. Quantum mixing of time-dependent Hartree-Fock-Bogolyubov trajectories *(13 pages)* 064615
David Regnier and Denis Lacroix

Comparison between calculations with the AMD code and experimental data for peripheral collisions of ^{93}Nb + ^{93}Nb, ^{116}Sn at 38 MeV/nucleon *(16 pages)* 064616
S. Piantelli, A. Olmi, P. R. Maurenzig, A. Ono, M. Bini, G. Casini, G. Pasquali, A. Mangiarotti, G. Poggi, A. A. Stefanini, S. Barlini, A. Camaiani, C. Ciampi, C. Frosin, P. Ottanelli, and S. Valdré

Two-neutron transfer in ^{7}Be + ^{9}Be collisions *(13 pages)* 064617
U. Umbelino, K. C. C. Pires, R. Lichtenthäler, V. Scarduelli, G. A. Scotton, A. Lépine-Szily, V. Guimarães, J. Lubian, B. Paes, J. L. Ferreira, M. A. G. Alvarez, J. M. B. Shorto, S. Appannababu, M. Assunção, R. P. Condori, and V. Morcelle

Astrophysical factors of ^{12}C + ^{12}C fusion extracted using the Trojan horse method *(12 pages)* 064618
A. M. Mukhamedzhanov, D. Y. Pang, and A. S. Kadyrov

Fission fragment angular anisotropy in neutron-induced fission of ^{235}U measured with a time projection chamber *(9 pages)* 064619
V. Geppert-Kleinrath, F. Tovesson, J. S. Barrett, N. S. Bowden, J. Bundgaard, R. J. Casperson, D. A. Cebra, T. Classen, M. Cunningham, D. L. Duke, J. Gearhart, U. Greife, E. Guardincerri, C. Hagmann, M. Heffner, D. Hensle, D. Higgins, L. D. Isenhower, J. King, J. L. Klay, W. Loveland, J. A. Magee, B. Manning, M. P. Mendenhall, J. Ruz, S. Sangiorgio, K. T. Schmitt, B. Seilhan, L. Snyder, A. C. Tate, R. S. Towell, N. Walsh, S. Watson, L. Yao, W. Younes (NIFFTE Collaboration), and H. Leeb

Relativistic Nuclear Collisions

Production of the $\rho(770)^0$ meson in pp and Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV *(20 pages)* 064901
S. Acharya *et al.* (ALICE Collaboration)

Universal scaling of the σ field and net-protons from Langevin dynamics of model A *(9 pages)* 064902
Shanjin Wu, Zeming Wu, and Huichao Song

Identified-particle production in Xe + Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV using a multiphase transport model *(9 pages)* 064903
Rutuparna Rath, Sushanta Tripathy, Raghunath Sahoo, Sudipan De, and Mohammed Younus

Machine-learning-based jet momentum reconstruction in heavy-ion collisions *(8 pages)* 064904
Rüdiger Haake and Constantin Loizides

Beam energy dependence of (anti-)deuteron production in Au + Au collisions at the BNL Relativistic Heavy Ion Collider *(12 pages)* 064905
J. Adam *et al.* (STAR Collaboration)

Update of a multiphase transport model with modern parton distribution functions and nuclear shadowing *(9 pages)* 064906
Chao Zhang, Liang Zheng, Feng Liu, Shusu Shi, and Zi-Wei Lin

Photon radiation in hot nuclear matter by means of chiral anomalies *(6 pages)* 064907
Kirill Tuchin

Strangeness production via resonances in heavy-ion collisions at energies available at the GSI Schwerionensynchrotron *(20 pages)* 064908
V. Steinberg, J. Staudenmaier, D. Oliinychenko, F. Li, Ö. Erkiner, and H. Elfner

(Continued)

PHYSICAL REVIEW C THIRD SERIES, VOLUME 99, NUMBER 6 JUNE 2019

Hadronic Physics and QCD

Nature of the D_0^* meson in $D\pi$ scattering with chiral symmetry *(7 pages)* 065201
Takumi Sugiura and Tetsuo Hyodo

Inclusive dijet photoproduction in ultraperipheral heavy ion collisions at the CERN Large Hadron Collider in next-to-leading order QCD *(10 pages)* 065202
V. Guzey and M. Klasen

Electroweak Interaction, Symmetries

Multisite event discrimination for the MAJORANA DEMONSTRATOR *(8 pages)* 065501
S. I. Alvis *et al.* (Majorana Collaboration)

Precise branching ratio measurements in ^{19}Ne β decay and fundamental tests of the weak interaction *(11 pages)* 065502
B. M. Rebeiro, S. Triambak, P. Z. Mabika, P. Finlay, C. S. Sumithrarachchi, G. Hackman, G. C. Ball, P. E. Garrett, C. E. Svensson, D. S. Cross, R. Dunlop, A. B. Garnsworthy, R. Kshetri, J. N. Orce, M. R. Pearson, E. R. Tardiff, H. Al-Falou, R. A. E. Austin, R. Churchman, M. K. Djongolov, R. D'Entremont, C. Kierans, L. Milovanovic, S. O'Hagan, S. Reeve, S. K. L. Sjue, S. J. Williams, and S. S. Ntshangase

Weak production of strange and charmed ground-state baryons in nuclei *(16 pages)* 065503
J. E. Sobczyk, N. Rocco, A. Lovato, and J. Nieves

Multipole decomposition of the rate of muon-to-electron ($\mu^- \longrightarrow e^-$) conversion in ^{208}Pb *(11 pages)* 065504
O. Civitarese and T. Tarutina

Nuclear Astrophysics

Doppler broadening in ^{20}Mg($\beta p\gamma$)^{19}Ne decay *(10 pages)* 065801
B. E. Glassman, D. Pérez-Loureiro, C. Wrede, J. Allen, D. W. Bardayan, M. B. Bennett, K. A. Chipps, M. Febbraro, M. Friedman, C. Fry, M. R. Hall, O. Hall, S. N. Liddick, P. O'Malley, W.-J. Ong, S. D. Pain, S. B. Schwartz, P. Shidling, H. Sims, L. J. Sun, P. Thompson, and H. Zhang

Nuclear symmetry energy and hadron-quark mixed phase in neutron stars *(16 pages)* 065802
X. H. Wu and H. Shen

Thermodynamics of neutrons in a magnetic field and its implications for neutron stars *(14 pages)* 065803
E. J. Ferrer and A. Hackebill

Neutron-proton pairing in nuclear matter *(6 pages)* 065804
Xiao-Hua Fan, Xin-le Shang, Jian-Min Dong, and Wei Zuo

Detection of atomic nuclear reaction products via optical imaging *(9 pages)* 065805
B. Loseth, R. Fang, D. Frisbie, K. Parzuchowski, C. Ugalde, J. Wenzl, and J. T. Singh

First experimental constraint on the ^{191}Os(n, γ) reaction rate relevant to s-process nucleosynthesis *(14 pages)* . . . 065806
I. K. B. Kullmann, A. C. Larsen, T. Renstrøm, K. S. Beckmann, F. L. Bello Garrote, L. Crespo Campo, A. Görgen, M. Guttormsen, J. E. Midtbø, E. Sahin, S. Siem, G. M. Tveten, and F. Zeiser

Cross-section measurements of radiative proton-capture reactions in ^{112}Cd at energies of astrophysical interest *(11 pages)* 065807
A. Psaltis, A. Khaliel, E.-M. Assimakopoulou, A. Kanellakopoulos, V. Lagaki, M. Lykiardopoulou, E. Malami, P. Tsavalas, A. Zyriliou, and T. J. Mertzimekis

Potential model for nuclear astrophysical fusion reactions with a square-well potential *(4 pages)* 065808
R. Ogura, K. Hagino, and C. A. Bertulani

(Continued)

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 99, NUMBER 6** **JUNE 2019**

Calculation of resonance energies from Q values *(3 pages)* 065809
Christian Iliadis

Thermal (n, γ) cross section and resonance integral of ^{171}Tm *(6 pages)* 065810
T. Heftrich, M. Weigand, Ch. E. Düllmann, K. Eberhardt, S. Fiebiger, J. Glorius, K. Göbel, C. Guerrero, R. Haas, S. Heinitz, J. Lerendegui-Marco, F. Käppeler, J. D. Kaiser, U. Köster, C. Langer, S. Lohse, F. Ludwig, R. Reifarth, D. Renisch, K. Scheutwinkel, D. Schumann, N. Wiehl, and C. Wolf

Zero-temperature limit and statistical quasiparticles in many-body perturbation theory *(30 pages)* 065811
Corbinian Wellenhofer

ERRATA

Erratum: Informing direct neutron capture on tin isotopes near the $N = 82$ shell closure [Phys. Rev. C **99**, 041302(R) (2019)] *(1 page)* . . . . . 069901(E)
B. Manning, G. Arbanas, J. A. Cizewski, R. L. Kozub, S. Ahn, J. M. Allmond, D. W. Bardayan, K. Y. Chae, K. A. Chipps, M. E. Howard, K. L. Jones, J. F. Liang, M. Matos, C. D. Nesaraja, F. M. Nunes, P. D. O'Malley, S. D. Pain, W. A. Peters, S. T. Pittman, A. Ratkiewicz, K. T. Schmitt, D. Shapira, M. S. Smith, and L. Titus