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 97, NUMBER 3 *CONTENTS* **MARCH 2018**

RAPID COMMUNICATIONS

Nuclear Structure

Nuclear quantum shape-phase transitions in odd-mass systems *(6 pages)* ..... 031301(R)
S. Quan, Z. P. Li, D. Vretenar, and J. Meng

Nuclear Reactions

Probing the fusion of neutron-rich nuclei with re-accelerated radioactive beams *(5 pages)* ..... 031601(R)
J. Vadas, Varinderjit Singh, B. B. Wiggins, J. Huston, S. Hudan, R. T. deSouza, Z. Lin, C. J. Horowitz, A. Chbihi, D. Ackermann, M. Famiano, and K. W. Brown

Electroweak Interaction, Symmetries

Complete event-by-event $\alpha/\gamma(\beta)$ separation in a full-size TeO_2 CUORE bolometer by Neganov-Luke-magnified light detection *(5 pages)* ..... 032501(R)
L. Bergé *et al.*

ARTICLES

Nucleon-Nucleon Interaction, Few-Body Systems

Three-neutron resonance study using transition operators *(6 pages)* 034001
A. Deltuva

Nuclear Structure

Mirror energy differences of $2s_{1/2}$, $1d_{5/2}$, and $1f_{7/2}$ states *(7 pages)* 034301
H. T. Fortune

Structure of ${}^{9}_{\Lambda}$Be and ${}^{10}_{\Lambda\Lambda}$Be using the beyond-mean-field Skyrme-Hartree-Fock approach *(8 pages)* 034302
Wen-Ying Li, Ji-Wei Cui, and Xian-Rong Zhou

Branching ratio to the 803 keV level in ^{210}Po α decay *(6 pages)* 034303
A. Shor, L. Weissman, O. Aviv, Y. Eisen, M. Brandis, M. Paul, A. Plompen, M. Tessler, and S. Vaintraub

Examination of the consistency of the quasiparticle random-phase approximation approach to double-β decay of ^{48}Ca *(12 pages)* 034304
J. Terasaki

Copyright 2018 by American Physical Society

2469-9985(201803)97:3;1-D

(Continued)

The editors and referees of PRC find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. C 86, 010001 (2012).

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 97, NUMBER 3** **MARCH 2018**

Spectroscopy of excited states of unbound nuclei ^{30}Ar and ^{29}Cl *(16 pages)* 034305
X.-D. Xu *et al.*

Possible candidates for multiple chiral doublet bands in cesium isotopes *(5 pages)* 034306
Jian Li (李剑)

Quantized Skyrmions from SU(4) weight diagrams *(14 pages)* 034307
C. J. Halcrow, N. S. Manton, and J. I. Rawlinson

Nonrotational states in isotonic chains of heavy nuclei *(11 pages)* 034308
G. G. Adamian, L. A. Malov, N. V. Antonenko, and R. V. Jolos

Shell-model computed cross sections for charged-current scattering of astrophysical neutrinos off ^{40}Ar *(9 pages)* 034309
Joel Kostensalo, Jouni Suhonen, and K. Zuber

Gamow-Teller response in the configuration space of a density-functional-theory–rooted no-core configuration-interaction model *(12 pages)* 034310
M. Konieczka, M. Kortelainen, and W. Satuła

Microscopic multiphonon approach to spectroscopy in the neutron-rich oxygen region *(12 pages)* 034311
G. De Gregorio, F. Knapp, N. Lo Iudice, and P. Veselý

Half-lives of ^{132}La and ^{135}La *(5 pages)* 034312
E. P. Abel, H. K. Clause, J. Fonslet, R. J. Nickles, and G. W. Severin

Matter distribution and spin-orbit force in spherical nuclei *(14 pages)* 034313
G. Co', M. Anguiano, V. De Donno, and A. M. Lallena

Structure of the exotic ^{9}He nucleus from the no-core shell model with continuum *(9 pages)* 034314
Matteo Vorabbi, Angelo Calci, Petr Navrátil, Michael K. G. Kruse, Sofia Quaglioni, and Guillaume Hupin

Improved description of the $2\nu\beta\beta$-decay and a possibility to determine the effective axial-vector coupling constant *(11 pages)* 034315
Fedor Šimkovic, Rastislav Dvornický, Dušan Štefánik, and Amand Faessler

Exactly solvable configuration mixing scheme in the vibrational limit of the interacting boson model *(10 pages)* 034316
Feng Pan, Dongkang Li, Guoqing Cheng, Zheng Qiao, Jiachao Bai, and Jerry P. Draayer

Shell-model-like approach based on cranking covariant density functional theory: Band crossing and shape evolution in ^{60}Fe *(9 pages)* 034317
Z. Shi (施智), Z. H. Zhang (张振华), Q. B. Chen (陈启博), S. Q. Zhang (张双全), and J. Meng (孟杰)

Constraints on Coulomb energy, neutron skin thickness in ^{208}Pb, and symmetry energy *(6 pages)* 034318
J. M. Dong, L. J. Wang, W. Zuo, and J. Z. Gu

Stability of superheavy nuclei *(16 pages)* 034319
K. Pomorski, B. Nerlo-Pomorska, J. Bartel, and C. Schmitt

Spectroscopy of ^{13}C above the α threshold with $\alpha + ^{9}$Be reactions at low energies *(10 pages)* 034320
I. Lombardo, D. Dell'Aquila, G. Spadaccini, G. Verde, and M. Vigilante

Thouless-Valatin rotational moment of inertia from linear response theory *(10 pages)* 034321
Kristian Petrík and Markus Kortelainen

Spectroscopic study of the possibly triaxial transitional nucleus ^{75}Ge *(6 pages)* 034322
C. Y. Niu *et al.* (牛晨阳)

(Continued)

The editors and referees of PRC find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. C 86, 010001 (2012).

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 97, NUMBER 3** **MARCH 2018**

Fission properties of superheavy nuclei for r-process calculations *(14 pages)* 034323
Samuel A. Giuliani, Gabriel Martínez-Pinedo, and Luis M. Robledo

Structures of p-shell double-Λ hypernuclei studied with microscopic cluster models *(14 pages)* 034324
Yoshiko Kanada-En'yo

Helical modes generate antimagnetic rotational spectra in nuclei *(9 pages)* 034325
Sham S. Malik

γ-soft rotor with configuration mixing in the O(6) limit of the interacting boson model *(10 pages)* 034326
Feng Pan, Shuli Yuan, Zheng Qiao, Jiachao Bai, Yu Zhang, and Jerry P. Draayer

Quasiparticle phonon model description of low-energy states in ^{152}Pr *(6 pages)* 034327
P. Alexa, M. Ramdhane, G. Thiamova, G. S. Simpson, H. R. Faust, J. Genevey, U. Köster, T. Materna, R. Orlandi, J. A. Pinston, A. Scherillo, and Z. Hons

Large-scale exact diagonalizations reveal low-momentum scales of nuclei *(19 pages)* 034328
C. Forssén, B. D. Carlsson, H. T. Johansson, D. Sääf, A. Bansal, G. Hagen, and T. Papenbrock

Microscopic description of triaxiality in Ru isotopes with covariant energy density functional theory *(10 pages)* 034329
Z. Shi (施智) and Z. P. Li (李志攀)

Transition sum rules in the shell model *(9 pages)* 034330
Yi Lu and Calvin W. Johnson

Level structure in the transitional nucleus ^{199}Tl *(10 pages)* 034331
C. B. Li (李聪博), X. G. Wu (吴晓光), Y. Zheng (郑云), Y. J. Jin (金彦君), H. L. Ma (马海亮), G. S. Li (李广生), J. Zhong (钟健), B. J. Zhu (朱保吉), T. X. Li (李天晓), Y. X. Gao (高彦祥), X. Guan (管弦), and J. Q. Liu (刘佳强)

Three-cluster dynamics within the *ab initio* no-core shell model with continuum: How many-body correlations and α clustering shape ^{6}He *(21 pages)* 034332
Sofia Quaglioni, Carolina Romero-Redondo, Petr Navrátil, and Guillaume Hupin

Nuclear Reactions

Single-particle strength from nucleon transfer in oxygen isotopes: Sensitivity to model parameters *(11 pages)* 034601
F. Flavigny, N. Keeley, A. Gillibert, and A. Obertelli

Collective flows of pions in Au+Au collisions at energies 1.0 and 1.5 GeV/nucleon *(9 pages)* 034602
Yangyang Liu, Yongjia Wang, Qingfeng Li, and Ling Liu

Deep-inelastic multinucleon transfer processes in the ^{16}O + ^{27}Al reaction *(13 pages)* 034603
B. J. Roy, Y. Sawant, P. Patwari, S. Santra, A. Pal, A. Kundu, D. Chattopadhyay, V. Jha, S. K. Pandit, V. V. Parkar, K. Ramachandran, K. Mahata, B. K. Nayak, A. Saxena, S. Kailas, T. N. Nag, R. N. Sahoo, P. P. Singh, and K. Sekizawa

Probing the density dependence of the symmetry energy by nucleon flow *(5 pages)* 034604
Xiao-Hua Fan, Gao-Chan Yong, and Wei Zuo

Exploring the manifestation and nature of a dineutron in two-neutron emission using a dynamical dineutron model *(11 pages)* 034605
L. V. Grigorenko, J. S. Vaagen, and M. V. Zhukov

Systematic model-independent S-matrix analysis of ^{4}He-^{40}Ca elastic scattering in going from anomalous large-angle scattering to near-Coulomb-barrier scattering *(8 pages)* 034606
V. Yu. Korda, A. S. Molev, L. P. Korda, and V. F. Klepikov

(Continued)

The editors and referees of PRC find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. C 86, 010001 (2012).

CONTENTS - *Continued*

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 97, NUMBER 3** **MARCH 2018**

Neutron emission in ^{19}F-induced reactions *(13 pages)*..... 034607
Jaimin Acharya, S. Mukherjee, A. Chatterjee, N. L. Singh, K. Ramachandran, P. C. Rout, K. Mahata, Vishal Desai, E. T. Mirgule, S. V. Suryanarayana, B. K. Nayak, A. Saxena, and G. F. Steyn

Hauser-Feshbach fission fragment de-excitation with calculated macroscopic-microscopic mass yields *(10 pages)* 034608
Patrick Jaffke, Peter Möller, Patrick Talou, and Arnold J. Sierk

Effect of isospin diffusion on the production of neutron-rich nuclei in multinucleon transfer reactions *(8 pages)*... 034609
Fei Niu, Peng-Hui Chen, Ya-Fei Guo, Chun-Wang Ma, and Zhao-Qing Feng

Cluster correlation and fragment emission in ^{12}C + ^{12}C at 95 MeV/nucleon *(13 pages)*..... 034610
G. Tian, Z. Chen, R. Han, F. Shi, F. Luo, Q. Sun, L. Song, X. Zhang, G. Q. Xiao, R. Wada, and A. Ono

Folding model analyses of ^{12}C-^{12}C and ^{16}O-^{16}O elastic scattering using the density-dependent LOCV-averaged effective interaction *(13 pages)*..... 034611
M. Rahmat and M. Modarres

Comparison of electromagnetic and nuclear dissociation of ^{17}Ne *(8 pages)*..... 034612
F. Wamers *et al.*

Two-nucleon emitters within a pseudostate method: The case of ^{6}Be and ^{16}Be *(9 pages)*..... 034613
J. Casal

Dynamical and many-body correlation effects in the kinetic energy spectra of isotopes produced in nuclear multifragmentation *(7 pages)*..... 034614
S. R. Souza, R. Donangelo, W. G. Lynch, and M. B. Tsang

^{197}Au(n,2n) reaction cross section in the 15–21 MeV energy range *(9 pages)*..... 034615
A. Kalamara, R. Vlastou, M. Kokkoris, N. G. Nicolis, N. Patronis, M. Serris, V. Michalopoulou, A. Stamatopoulos, A. Lagoyannis, and S. Harissopulos

Analysis of pairing correlations in neutron transfer reactions and comparison to the constrained molecular dynamics model *(5 pages)*..... 034616
C. Agodi, G. Giuliani, F. Cappuzzello, A. Bonasera, D. Carbone, M. Cavallaro, A. Foti, R. Linares, and G. Santagati

Effect of in-medium nucleon-nucleon cross section on proton-proton momentum correlation in intermediate-energy heavy-ion collisions *(9 pages)*..... 034617
Ting-Ting Wang, Yu-Gang Ma, Chun-Jian Zhang, and Zheng-Qiao Zhang

Measurement of the normalized ^{238}U(n,f)/^{235}U(n,f) cross section ratio from threshold to 30 MeV with the NIFFTE fission Time Projection Chamber *(14 pages)*..... 034618
R. J. Casperson *et al.* (NIFFTE Collaboration)

Microscopic optical potentials derived from *ab initio* translationally invariant nonlocal one-body densities *(16 pages)*..... 034619
Michael Gennari, Matteo Vorabbi, Angelo Calci, and Petr Navrátil

Effects of retarded electrical fields on observables sensitive to the high-density behavior of the nuclear symmetry energy in heavy-ion collisions at intermediate energies *(9 pages)*..... 034620
Gao-Feng Wei, Bao-An Li, Gao-Chan Yong, Li Ou, Xin-Wei Cao, and Xu-Yang Liu

Charge distributions of fission fragments of low- and high-energy fission of Fm, No, and Rf isotopes *(12 pages)*..... 034621
H. Paşca, A. V. Andreev, G. G. Adamian, and N. V. Antonenko

Angular distribution of γ rays from neutron-induced compound states of ^{140}La *(15 pages)*..... 034622
T. Okudaira, S. Takada, K. Hirota, A. Kimura, M. Kitaguchi, J. Koga, K. Nagamoto, T. Nakao, A. Okada, K. Sakai, H. M. Shimizu, T. Yamamoto, and T. Yoshioka

(Continued)

The editors and referees of PRC find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. C 86, 010001 (2012).

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 97, NUMBER 3** **MARCH 2018**

Origin of a maximum of the astrophysical S factor in heavy-ion fusion reactions at deep subbarrier energies *(4 pages)* 034623
K. Hagino, A. B. Balantekin, N. W. Lwin, and Ei Shwe Zin Thein

Using experimental data to test an n-body dynamical model coupled with an energy-based clusterization algorithm at low incident energies *(8 pages)* 034624
Rohit Kumar and Rajeev K. Puri

Comparison of heavy-ion transport simulations: Collision integral in a box *(20 pages)* 034625
Ying-Xun Zhang, Yong-Jia Wang, Maria Colonna, Pawel Danielewicz, Akira Ono, Manyee Betty Tsang, Hermann Wolter, Jun Xu, Lie-Wen Chen, Dan Cozma, Zhao-Qing Feng, Subal Das Gupta, Natsumi Ikeno, Che-Ming Ko, Bao-An Li, Qing-Feng Li, Zhu-Xia Li, Swagata Mallik, Yasushi Nara, Tatsuhiko Ogawa, Akira Ohnishi, Dmytro Oliinychenko, Massimo Papa, Hannah Petersen, Jun Su, Taesoo Song, Janus Weil, Ning Wang, Feng-Shou Zhang, and Zhen Zhang

Absorption effects in nuclear particle correlations *(5 pages)* 034626
R. da Silveira and Ch. Leclercq-Willain

Microscopic description of pair transfer between two superfluid Fermi systems: Combining phase-space averaging and combinatorial techniques *(18 pages)* 034627
David Regnier, Denis Lacroix, Guillaume Scamps, and Yukio Hashimoto

Inclusive breakup calculations in angular momentum basis: Application to ^{7}Li + ^{58}Ni *(7 pages)* 034628
Jin Lei

Elastic, inelastic, and 1n transfer cross sections for the ^{10}B + ^{120}Sn reaction *(8 pages)* 034629
L. R. Gasques, A. S. Freitas, L. C. Chamon, J. R. B. Oliveira, N. H. Medina, V. Scarduelli, E. S. Rossi Jr., M. A. G. Alvarez, V. A. B. Zagatto, J. Lubian, G. P. A. Nobre, I. Padron, and B. V. Carlson

Direct pickup and knockout processes in inclusive (p,dx) reactions at 42–392 MeV *(7 pages)* 034630
Yusuke Uozumi, Yuji Yamaguchi, Gaku Watanabe, Yuki Fukuda, Ryota Imamura, Monira Jannatul Kobra, and Masahiro Nakano

Relativistic Nuclear Collisions

Wounded-quark emission function at the top energy available at the BNL Relativistic Heavy Ion Collider *(6 pages)* 034901
Michał Barej, Adam Bzdak, and Paweł Gutowski

Effects of initial-state nucleon shadowing on the elliptic flow of thermal photons *(9 pages)* 034902
Pingal Dasgupta, Rupa Chatterjee, Sushant K. Singh, and Jan-e Alam

Initial angular momentum and flow in high energy nuclear collisions *(14 pages)* 034903
Rainer J. Fries, Guangyao Chen, and Sidharth Somanathan

Hydrodynamic predictions for 5.44 TeV Xe+Xe collisions *(8 pages)* 034904
Giuliano Giacalone, Jacquelyn Noronha-Hostler, Matthew Luzum, and Jean-Yves Ollitrault

Principal component analysis of the nonlinear coupling of harmonic modes in heavy-ion collisions *(8 pages)* 034905
Piotr Bożek

Testing charm quark equilibration in ultrahigh-energy heavy ion collisions with fluctuations *(5 pages)* 034906
Thorben Graf, Jan Steinheimer, Marcus Bleicher, and Christoph Herold

Azimuthal angle dependence of the charge imbalance from charge conservation effects *(6 pages)* 034907
Piotr Bożek

Reduction of the K^* meson abundance in heavy ion collisions *(12 pages)* 034908
Sungtae Cho and Su Houng Lee

(Continued)

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 97, NUMBER 3** **MARCH 2018**

Investigating the quark flavor dependence of the chiral magnetic effect with a multiphase transport model *(5 pages)* 034909
Ling Huang, Chun-Wang Ma, and Guo-Liang Ma

Effects of bulk viscosity and hadronic rescattering in heavy ion collisions at energies available at the BNL Relativistic Heavy Ion Collider and at the CERN Large Hadron Collider *(21 pages)*..... 034910
Sangwook Ryu, Jean-François Paquet, Chun Shen, Gabriel Denicol, Björn Schenke, Sangyong Jeon, and Charles Gale

Predictions for multiplicities and flow harmonics in 5.44 TeV Xe+Xe collisions at the CERN Large Hadron Collider *(6 pages)*..... 034911
K. J. Eskola, H. Niemi, R. Paatelainen, and K. Tuominen

Signatures of α clustering in ultrarelativistic collisions with light nuclei *(10 pages)*..... 034912
Maciej Rybczyński, Milena Piotrowska, and Wojciech Broniowski

Longitudinal decorrelation measures of flow magnitude and event-plane angles in ultrarelativistic nuclear collisions *(9 pages)*..... 034913
Piotr Bożek and Wojciech Broniowski

Jet-medium interaction and conformal relativistic fluid dynamics *(6 pages)*..... 034914
Li Yan, Sangyong Jeon, and Charles Gale

Effects of initial-state dynamics on collective flow within a coupled transport and viscous hydrodynamic approach *(10 pages)*..... 034915
Chandrodoy Chattopadhyay, Rajeev S. Bhalerao, Jean-Yves Ollitrault, and Subrata Pal

Reexamining the iconic dihadron correlation measurement demonstrating jet quenching *(4 pages)*..... 034916
Christine Nattrass

Quark coalescence model for polarized vector mesons and baryons *(13 pages)*..... 034917
Yang-guang Yang, Ren-hong Fang, Qun Wang, and Xin-nian Wang

T-matrix approach to quark-gluon plasma *(27 pages)*..... 034918
Shuai Y. F. Liu and Ralf Rapp

Hadronic Physics and QCD

Contribution of a kaon component in the viscosity and conductivity of a hadronic medium *(8 pages)*..... 035201
Mahfuzur Rahaman, Snigdha Ghosh, Sabyasachi Ghosh, Sourav Sarkar, and Jan-e Alam

Beth-Uhlenbeck approach for repulsive interactions between baryons in a hadron gas *(9 pages)*..... 035202
Volodymyr Vovchenko, Anton Motornenko, Mark I. Gorenstein, and Horst Stoecker

Role of the triangle singularity in $\Lambda(1405)$ production in the $\pi^- p \to K^0 \pi \Sigma$ and $pp \to pK^+ \pi \Sigma$ processes *(12 pages)*..... 035203
M. Bayar, R. Pavao, S. Sakai, and E. Oset

Genuine quark state versus dynamically generated structure for the Roper resonance *(10 pages)*..... 035204
B. Golli, H. Osmanović, S. Širca, and A. Švarc

Nucleon-to-Δ transition form factors in chiral effective field theory using the complex-mass scheme *(14 pages)*... 035205
M. Hilt, T. Bauer, S. Scherer, and L. Tiator

Single-particle potential of the Λ hyperon in nuclear matter with chiral effective field theory NLO interactions including effects of YNN three-baryon interactions *(14 pages)*..... 035206
M. Kohno (河野通郎)

Anisotropy in the equation of state of strongly magnetized quark matter within the Nambu–Jona-Lasinio model *(8 pages)*..... 035207
Sidney S. Avancini, Veronica Dexheimer, Ricardo L. S. Farias, and Varese S. Timóteo

(Continued)

The editors and referees of PRC find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. C 86, 010001 (2012).

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 97, NUMBER 3** **MARCH 2018**

First measurement of coherent ϕ-meson photoproduction from ^{4}He near threshold *(6 pages)* 035208
T. Hiraiwa *et al.* (LEPS Collaboration)

Electron-deuteron deep-inelastic scattering with spectator nucleon tagging and final-state interactions at intermediate x *(38 pages)* 035209
M. Strikman and C. Weiss

Resonance decay dynamics and their effects on p_T spectra of pions in heavy-ion collisions *(7 pages)* 035210
Pok Man Lo

Few-body quark dynamics for doubly heavy baryons and tetraquarks *(10 pages)* 035211
Jean-Marc Richard, Alfredo Valcarce, and Javier Vijande

Electroweak Interaction, Symmetries

Precise half-life measurement of the superallowed emitter ^{30}S *(8 pages)* 035501
V. E. Iacob, J. C. Hardy, L. Chen, V. Horvat, M. Bencomo, N. Nica, H. I. Park, B. T. Roeder, and A. Saastamoinen

Electron time-of-flight: A new tool in β-decay spectroscopy *(11 pages)* 035502
C. Roick, D. Dubbers, B. Märkisch, H. Saul, and U. Schmidt

Precision half-life measurement of ^{11}C: The most precise mirror transition $\mathcal{F}t$ value *(7 pages)* 035503
A. A. Valverde, M. Brodeur, T. Ahn, J. Allen, D. W. Bardayan, F. D. Becchetti, D. Blankstein, G. Brown, D. P. Burdette, B. Frentz, G. Gilardy, M. R. Hall, S. King, J. J. Kolata, J. Long, K. T. Macon, A. Nelson, P. D. O'Malley, M. Skulski, S. Y. Strauss, and B. Vande Kolk

Recoil ions from the β decay of ^{134}Sb confined in a Paul trap *(10 pages)* 035504
K. Siegl, N. D. Scielzo, A. Czeszumska, J. A. Clark, G. Savard, A. Aprahamian, S. A. Caldwell, B. S. Alan, M. T. Burkey, C. J. Chiara, J. P. Greene, J. Harker, S. T. Marley, G. E. Morgan, J. M. Munson, E. B. Norman, R. Orford, S. Padgett, A. Perez Galván, K. S. Sharma, and S. Y. Strauss

New result for the neutron β-asymmetry parameter A_0 from UCNA *(9 pages)* 035505
M. A.-P. Brown *et al.* (UCNA Collaboration)

Scaling within the spectral function approach *(15 pages)* 035506
J. E. Sobczyk, N. Rocco, A. Lovato, and J. Nieves

Nuclear Astrophysics

Direct measurement of resonance strengths in ^{34}S$(\alpha,\gamma)^{38}$Ar at astrophysically relevant energies using the DRAGON recoil separator *(12 pages)* 035801
D. Connolly, P. D. O'Malley, C. Akers, A. A. Chen, G. Christian, B. Davids, L. Erikson, J. Fallis, B. R. Fulton, U. Greife, U. Hager, D. A. Hutcheon, S. Ilyushkin, A. M. Laird, A. Mahl, and C. Ruiz

Astrophysical ^{3}He$(\alpha,\gamma)^7$Be and ^{3}H$(\alpha,\gamma)^7$Li direct capture reactions in a potential-model approach *(9 pages)* 035802
E. M. Tursunov, S. A. Turakulov, and A. S. Kadyrov

66.7-keV γ-line intensity of ^{171}Tm determined via neutron activation *(4 pages)* 035803
M. Weigand, T. Heftrich, Ch. E. Düllmann, K. Eberhardt, S. Fiebiger, J. Glorius, K. Göbel, R. Haas, C. Langer, S. Lohse, R. Reifarth, D. Renisch, and C. Wolf

Heavy nuclei as thermal insulation for protoneutron stars *(5 pages)* 035804
Ken'ichiro Nakazato, Hideyuki Suzuki, and Hajime Togashi

Effects of the nucleon radius on neutron stars in a quark mean field model *(6 pages)* 035805
Zhen-Yu Zhu and Ang Li

(Continued)

The editors and referees of PRC find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. C 86, 010001 (2012).

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 97, NUMBER 3** **MARCH 2018**

Cross section measurements of proton capture reactions on Se isotopes relevant to the astrophysical *p* process *(21 pages)* 035806
V. Foteinou, S. Harissopulos, M. Axiotis, A. Lagoyannis, G. Provatas, A. Spyrou, G. Perdikakis, Ch. Zarkadas, and P. Demetriou

Distribution of nuclei in equilibrium stellar matter from the free-energy density in a Wigner-Seitz cell *(13 pages)* 035807
G. Grams, S. Giraud, A. F. Fantina, and F. Gulminelli

ERRATA

Erratum: Momentum distributions, spin-dependent observables, and the D_2 parameter for ^{3}He breakup [Phys. Rev. C **87**, 024002 (2013)] *(2 pages)* ..... 039901(E)
A. P. Kobushkin and E. A. Strokovsky