PHYSICAL REVIEW C **THIRD SERIES, VOLUME 88, NUMBER 4** **OCTOBER 2013**

ERRATA

Erratum: Pairing theory of the symmetry energy [Phys. Rev. C **80**, 044313 (2009)] *(1 page)* . . . . . 049901(E)
K. Neergård

Publisher's Note: Differential photoproduction cross sections of the $\Sigma^0(1385)$, $\Lambda(1405)$, and $\Lambda(1520)$
[Phys. Rev. C **88**, 045201 (2013)] *(1 page)* . . . . . 049902(E)
K. Moriya *et al*. (CLAS Collaboration)

PHYSICAL REVIEW C THIRD SERIES, VOLUME 88, NUMBER 4 OCTOBER 2013

Surface tension and curvature energy of quark matter in the Nambu–Jona-Lasinio model *(6 pages)* 045803
G. Lugones, A. G. Grunfeld, and M. Al Ajmi

High precision ^{113}In$(\alpha,\alpha)^{113}$In elastic scattering at energies near the Coulomb barrier for the astrophysical γ process *(12 pages)* 045804
G. G. Kiss, P. Mohr, Zs. Fülöp, T. Rauscher, Gy. Gyürky, T. Szücs, Z. Halász, E. Somorjai, A. Ornelas, C. Yalçın, R. T. Güray, and N. Özkan

Densities and energies of nuclei in dilute matter at zero temperature *(18 pages)* 045805
P. Papakonstantinou, J. Margueron, F. Gulminelli, and Ad. R. Raduta

BRIEF REPORTS

Nucleon-Nucleon Interaction, Few-Body Systems

Approximations of potentials through the truncation of their inverses *(4 pages)* 047001
N. C. Brown, S. E. Grefe, and Z. Papp

Nuclear Structure

Probing nuclear structures in the vicinity of ^{78}Ni with β- and βn-decay spectroscopy of ^{84}Ga *(5 pages)* 047301
K. Kolos, D. Verney, F. Ibrahim, F. Le Blanc, S. Franchoo, K. Sieja, F. Nowacki, C. Bonnin, M. Cheikh Mhamed, P. V. Cuong, F. Didierjean, G. Duchêne, S. Essabaa, G. Germogli, L. H. Khiem, C. Lau, I. Matea, M. Niikura, B. Roussière, I. Stefan, D. Testov, and J.-C. Thomas

Nuclear Reactions

Scaling laws for near-barrier Coulomb and nuclear breakup *(4 pages)* 047601
M. S. Hussein, P. R. S. Gomes, J. Lubian, D. R. Otomar, and L. F. Canto

Symmetry-energy dependence of the dynamical dipole mode in the Boltzmann-Uehling-Uhlenbeck model *(4 pages)* 047602
S. Q. Ye (叶绍强), X. Z. Cai (蔡翔舟), Y. G. Ma (马余刚), and W. Q. Shen (沈文庆)

Reaction cross sections of hypernuclei and the shrinkage effect *(3 pages)* 047603
T. Akaishi and K. Hagino

Isospin dependence of mass-distribution shape of fission fragments of Hg isotopes *(4 pages)* 047604
A. V. Andreev, G. G. Adamian, N. V. Antonenko, and A. N. Andreyev

Relativistic Nuclear Collisions

Impact of the nuclear modification of the gluon densities on J/ψ production in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV *(5 pages)* 047901
E. G. Ferreiro, F. Fleuret, J. P. Lansberg, and A. Rakotozafindrabe

Electroweak Interaction, Symmetries

Limits on tensor coupling from neutron β decay *(5 pages)* 048501
R. W. Pattie, Jr., K. P. Hickerson, and A. R. Young

Nuclear Astrophysics

Spectroscopic factor of the 1^+, ^{25}Al$(p,\gamma)^{26}$Si resonance at $E_x = 5.68$ MeV *(2 pages)* 048801
A. Parikh and J. José

(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 88, NUMBER 4 OCTOBER 2013

Bulk viscosity effects in event-by-event relativistic hydrodynamics *(17 pages)* 044916
Jacquelyn Noronha-Hostler, Gabriel S. Denicol, Jorge Noronha, Rone P. G. Andrade, and Frédérique Grassi

Shear viscosity of hadrons with K-matrix cross sections *(14 pages)* 044917
Anton Wiranata, Volker Koch, Madappa Prakash, and Xin Nian Wang

Possibility of event shape selection in relativistic heavy ion collisions *(5 pages)* 044918
Hannah Petersen and Berndt Müller

Centrality and transverse momentum dependencies of minijets and hadrons in Au-Au collisions *(12 pages)* 044919
Lilin Zhu and Rudolph C. Hwa

Challenging the utility of third-order azimuth harmonics in the description of ultrarelativistic heavy-ion collisions *(12 pages)* 044920
R. L. Ray, D. J. Prindle, and T. A. Trainor

Hadronic Physics and QCD

Differential photoproduction cross sections of the $\Sigma^0(1385)$, $\Lambda(1405)$, and $\Lambda(1520)$ *(20 pages)* 045201
K. Moriya *et al.* (CLAS Collaboration)

First observation of the $\Lambda(1405)$ line shape in electroproduction *(7 pages)* 045202
H. Y. Lu *et al.* (CLAS Collaboration)

Impact of $\pi N \to \pi\pi N$ data on determining high-mass nucleon resonances *(5 pages)* 045203
Hiroyuki Kamano

Transport coefficients from the Nambu–Jona-Lasinio model for $SU(3)_f$ *(13 pages)* 045204
R. Marty, E. Bratkovskaya, W. Cassing, J. Aichelin, and H. Berrehrah

Fractal structure of near-threshold quarkonium production off cold nuclear matter *(5 pages)* 045205
Partha Pratim Bhaduri and Sourendu Gupta

Electroweak Interaction, Symmetries

High-precision branching-ratio measurement for the superallowed β^+ emitter ^{74}Rb *(17 pages)* 045501
R. Dunlop, G. C. Ball, J. R. Leslie, C. E. Svensson, I. S. Towner, C. Andreoiu, S. Chagnon-Lessard, A. Chester, D. S. Cross, P. Finlay, A. B. Garnsworthy, P. E. Garrett, J. Glister, G. Hackman, B. Hadinia, K. G. Leach, E. T. Rand, K. Starosta, E. R. Tardiff, S. Triambak, S. J. Williams, J. Wong, S. W. Yates, and E. F. Zganjar

New concept for a neutron electric dipole moment search using a pulsed beam *(5 pages)* 045502
Florian M. Piegsa

Nuclear Astrophysics

Constraining nova observables: Direct measurements of resonance strengths in $^{33}S(p,\gamma)^{34}Cl$ *(11 pages)* 045801
J. Fallis, A. Parikh, P. F. Bertone, S. Bishop, L. Buchmann, A. A. Chen, G. Christian, J. A. Clark, J. M. D'Auria, B. Davids, C. M. Deibel, B. R. Fulton, U. Greife, B. Guo, U. Hager, C. Herlitzius, D. A. Hutcheon, J. José, A. M. Laird, E. T. Li, Z. H. Li, G. Lian, W. P. Liu, L. Martin, K. Nelson, D. Ottewell, P. D. Parker, S. Reeve, A. Rojas, C. Ruiz, K. Setoodehnia, S. Sjue, C. Vockenhuber, Y. B. Wang, and C. Wrede

Measurement of the $^{90,92}Zr(p,\gamma)^{91,93}Nb$ reactions for the nucleosynthesis of elements near $A = 90$ *(6 pages)* 045802
A. Spyrou, S. J. Quinn, A. Simon, T. Rauscher, A. Battaglia, A. Best, B. Bucher, M. Couder, P. A. DeYoung, A. C. Dombos, X. Fang, J. Görres, A. Kontos, Q. Li, L. Y. Lin, A. Long, S. Lyons, B. S. Meyer, A. Roberts, D. Robertson, K. Smith, M. K. Smith, E. Stech, B. Stefanek, W. P. Tan, X. D. Tang, and M. Wiescher

(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 88, NUMBER 4** **OCTOBER 2013**

Systematic study of α-decay properties of superheavy nuclei *(10 pages)* 044618
A. I. Budaca and I. Silişteanu

Experimental study of bound states in ^{12}Be through low-energy ^{11}Be(d, p)-transfer reactions *(10 pages)* 044619
J. G. Johansen, V. Bildstein, M. J. G. Borge, M. Cubero, J. Diriken, J. Elseviers, L. M. Fraile, H. O. U. Fynbo, L. P. Gaffney, R. Gernhäuser, B. Jonson, G. T. Koldste, J. Konki, T. Kröll, R. Krücken, D. Mücher, T. Nilsson, K. Nowak, J. Pakarinen, V. Pesudo, R. Raabe, K. Riisager, M. Seidlitz, O. Tengblad, H. Törnqvist, D. Voulot, N. Warr, F. Wenander, K. Wimmer, and H. De Witte

Noncollective excitations in low-energy heavy-ion reactions: Applicability of the random-matrix model *(5 pages)* 044620
S. Yusa, K. Hagino, and N. Rowley

Relativistic Nuclear Collisions

Domain growth and fluctuations during quenched transition to quark-gluon plasma in relativistic heavy-ion collisions *(12 pages)* 044901
Ranjita K. Mohapatra and Ajit M. Srivastava

Υ suppression at energies available at the BNL Relativistic Heavy Ion Collider and at the CERN Large Hadron Collider in a modified color screening scenario *(7 pages)* 044902
P. K. Srivastava, S. K. Tiwari, and C. P. Singh

Method for the analysis of forward-backward multiplicity correlations in heavy-ion collisions *(6 pages)* 044903
Sudipan De, T. Tarnowsky, T. K. Nayak, R. P. Scharenberg, and B. K. Srivastava

Space-time structure of the energy deposition into the bulk medium due to jet quenching *(8 pages)* 044905
Thorsten Renk

Characterization of initial fluctuations for the hydrodynamical description of heavy ion collisions *(22 pages)* 044906
Stefan Floerchinger and Urs Achim Wiedemann

Heavy-quark dynamics and hadronization in ultrarelativistic heavy-ion collisions: Collisional versus radiative energy loss *(10 pages)* 044907
Shanshan Cao, Guang-You Qin, and Steffen A. Bass

Bottomonium suppression at $\sqrt{s_{NN}} = 2.76$ TeV using a model based on color screening and gluonic dissociation with collisional damping *(8 pages)* 044908
S. Ganesh and M. Mishra

Centrality determination of Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with ALICE *(22 pages)* 044909
B. Abelev *et al.* (ALICE Collaboration)

Centrality dependence of π, K, and p production in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV *(23 pages)* 044910
B. Abelev *et al.* (ALICE Collaboration)

Particle production in relativistic heavy-ion collisions: A consistent hydrodynamic approach *(5 pages)* 044911
Rajeev S. Bhalerao, Amaresh Jaiswal, Subrata Pal, and V. Sreekanth

Toward a model-independent constraint of the high-density dependence of the symmetry energy *(8 pages)* 044912
M. D. Cozma, Y. Leifels, W. Trautmann, Q. Li, and P. Russotto

Forward-backward multiplicity correlations in relativistic heavy-ion collisions in a superposition approach *(7 pages)* 044913
Adam Olszewski and Wojciech Broniowski

Hanbury-Brown–Twiss interferometry relative to the triangular flow plane in heavy-ion collisions *(11 pages)* 044914
Christopher J. Plumberg, Chun Shen, and Ulrich Heinz

High-multiplicity pp and pA collisions: Hydrodynamics at its edge *(13 pages)* 044915
Edward Shuryak and Ismail Zahed

(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 88, NUMBER 4** **OCTOBER 2013**

Collective and noncollective excitations in ^{122}Te *(13 pages)* 044335
Somnath Nag, A. K. Singh, I. Ragnarsson, H. Hübel, A. Al-Khatib, P. Bringel, C. Engelhardt, A. Neußer-Neffgen, G. B. Hagemann, B. Herskind, G. Sletten, M. P. Carpenter, R. V. F. Janssens, T. L. Khoo, T. Lauritsen, R. M. Clark, P. Fallon, G. Benzoni, A. Bracco, F. Camera, and P. Chowdhury

Nuclear Reactions

Measurement of the $\gamma p \to K^0\Sigma^+$ reaction with the Crystal Ball/TAPS detectors at the Mainz Microtron *(11 pages)* 044601
P. Aguar-Bartolomé *et al.* (A2 Collaboration at MAMI)

The ratio method: A new tool to study one-neutron halo nuclei *(12 pages)* 044602
P. Capel, R. C. Johnson, and F. M. Nunes

Isomer production ratios and the angular momentum distribution of fission fragments *(8 pages)* 044603
I. Stetcu, P. Talou, T. Kawano, and M. Jandel

Probing vector mesons in deuteron breakup reactions *(15 pages)* 044604
Adam J. Freese and Misak M. Sargsian

Production probability of superheavy fragments at various initial deformations and orientations in the ^{238}U + ^{238}U reaction *(7 pages)* 044605
Kai Zhao, Zhuxia Li, Xizhen Wu, and Yingxun Zhang

Derivation of reaction cross sections from experimental elastic backscattering probabilities *(5 pages)* 044606
V. V. Sargsyan, G. G. Adamian, N. V. Antonenko, and P. R. S. Gomes

Precision measurement of the ^{238}Pu(n, γ) cross section *(5 pages)* 044607
A. Chyzh, C. Y. Wu, E. Kwan, R. A. Henderson, J. M. Gostic, T. A. Bredeweg, A. Couture, R. C. Haight, H. Y. Lee, J. M. O'Donnell, and J. L. Ullmann

Multidimensional model of cluster radioactivity *(11 pages)* 044608
V. Yu. Denisov

Connecting the pygmy dipole resonance to the neutron skin *(7 pages)* 044610
V. Baran, M. Colonna, M. Di Toro, A. Croitoru, and D. Dumitru

Dynamics of energy dissipation in heavy-ion fusion reactions *(9 pages)* 044611
Xiang Jiang, Shiwei Yan, and Joachim A. Maruhn

Neutron-skin effects in isobaric yield ratios for mirror nuclei in a statistical abrasion-ablation model *(7 pages)* ... 044612
Chun-Wang Ma (马春旺), Hui-Ling Wei (魏慧玲), and Yu-Gang Ma (马余刚)

Influence of secondary decay on odd-even staggering of fragment cross sections *(5 pages)* 044613
J. R. Winkelbauer, S. R. Souza, and M. B. Tsang

Fission process of nuclei at low excitation energies with a Langevin approach *(7 pages)* 044614
Y. Aritomo and S. Chiba

Ambiguity of the final state interaction for neutral-current neutrino-nucleus scattering in the quasielastic region *(7 pages)* 044615
K. S. Kim, Myung-Ki Cheoun, and W. Y. So

Quasi-elastic processes of the ^{48}Ca + ^{120}Sn system and the ^{48}Ca nuclear matter density *(8 pages)* 044616
E. Crema, M. A. G. Alvarez, N. H. Medina, L. R. Gasques, J. F. P. Huiza, B. Fernández, Z. Abou-Haïdar, P. N. de Faria, P. R. S. Gomes, J. Lubian, and D. Verney

Complete fusion in ^{7}Li+^{144,152}Sm reactions *(10 pages)* 044617
P. K. Rath, S. Santra, N. L. Singh, B. K. Nayak, K. Mahata, R. Palit, K. Ramachandran, S. K. Pandit, A. Parihari, A. Pal, S. Appannababu, Sushil K. Sharma, D. Patel, and S. Kailas

(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 88, NUMBER 4** **OCTOBER 2013**

β-delayed fission of ^{180}Tl *(13 pages)* 044321
J. Elseviers, A. N. Andreyev, M. Huyse, P. Van Duppen, S. Antalic, A. Barzakh, N. Bree, T. E. Cocolios, V. F. Comas, J. Diriken, D. Fedorov, V. N. Fedosseev, S. Franchoo, L. Ghys, J. A. Heredia, O. Ivanov, U. Köster, B. A. Marsh, K. Nishio, R. D. Page, N. Patronis, M. D. Seliverstov, I. Tsekhanovich, P. Van den Bergh, J. Van De Walle, M. Venhart, S. Vermote, M. Veselský, and C. Wagemans

β-delayed fission and α decay of ^{178}Tl *(10 pages)* 044322
V. Liberati, A. N. Andreyev, S. Antalic, A. Barzakh, T. E. Cocolios, J. Elseviers, D. Fedorov, V. N. Fedoseeev, M. Huyse, D. T. Joss, Z. Kalaninová, U. Köster, J. F. W. Lane, B. Marsh, D. Mengoni, P. Molkanov, K. Nishio, R. D. Page, N. Patronis, D. Pauwels, D. Radulov, M. Seliverstov, M. Sjödin, I. Tsekhanovich, P. Van den Bergh, P. Van Duppen, M. Venhart, and M. Veselský

Possible deformation evolution in the $\pi i_{13/2}$ structure of ^{171}Re *(15 pages)* 044323
D. J. Hartley, E. E. Pedicini, R. V. F. Janssens, L. L. Riedinger, M. A. Riley, X. Wang, S. Miller, A. D. Ayangeakaa, M. P. Carpenter, J. J. Carroll, J. Cavey, C. J. Chiara, P. Chowdhury, U. Garg, S. S. Hota, E. G. Jackson, F. G. Kondev, T. Lauritsen, M. Litz, W. C. Ma, J. Matta, E. S. Paul, J. Simpson, J. R. Vanhoy, and S. Zhu

Structure of transactinide nuclei with relativistic energy density functionals *(11 pages)* 044324
V. Prassa, T. Nikšić, and D. Vretenar

Level statistical properties of the spherical mean-field plus standard pairing model *(8 pages)* 044325
Xin Guan, Kristina D. Launey, Jianzhong Gu, Feng Pan, and Jerry P. Draayer

Lifetime measurements in neutron-rich ^{63,65}Co isotopes using the AGATA demonstrator *(6 pages)* 044326
V. Modamio *et al.*

Implementation of the finite amplitude method for the relativistic quasiparticle random-phase approximation *(11 pages)* 044327
T. Nikšić, N. Kralj, T. Tutiš, D. Vretenar, and P. Ring

High spin spectroscopy of ^{201}Tl *(10 pages)* 044328
S. Das Gupta, S. Bhattacharyya, H. Pai, G. Mukherjee, Soumik Bhattacharya, R. Palit, A. Shrivastava, A. Chatterjee, S. Chanda, V. Nanal, S. K. Pandit, S. Saha, J. Sethi, and S. Thakur

Systematic calculations of α decay properties based on results from recent experiments *(5 pages)* 044329
Yibin Qian and Zhongzhou Ren

Experimental study of the β-γ and β-$n\gamma$ decay of the neutron-rich nucleus ^{85}Ga *(6 pages)* 044330
A. Korgul, K. P. Rykaczewski, R. Grzywacz, H. Śliwińska, J. C. Batchelder, C. Bingham, I. N. Borzov, N. Brewer, L. Cartegni, A. Fijałkowska, C. J. Gross, J. H. Hamilton, C. Jost, M. Karny, W. Królas, S. Liu, C. Mazzocchi, M. Madurga, A. J. Mendez II, K. Miernik, D. Miller, S. Padgett, S. Paulauskas, D. Shapira, D. Stracener, K. Sieja, J. A. Winger, M. Wolińska-Cichocka, and E. F. Zganjar

Low-lying dipole strength of the open-shell nucleus ^{94}Mo *(15 pages)* 044331
C. Romig, J. Beller, J. Glorius, J. Isaak, J. H. Kelley, E. Kwan, N. Pietralla, V. Yu. Ponomarev, A. Sauerwein, D. Savran, M. Scheck, L. Schnorrenberger, K. Sonnabend, A. P. Tonchev, W. Tornow, H. R. Weller, A. Zilges, and M. Zweidinger

Nucleon pair approximation description of the low-lying structure of ^{108,109}Te and ^{109}I *(8 pages)* 044332
H. Jiang, C. Qi, Y. Lei, R. Liotta, R. Wyss, and Y. M. Zhao

Charge-symmetry breaking forces and isospin mixing in ^{8}Be *(8 pages)* 044333
R. B. Wiringa, S. Pastore, Steven C. Pieper, and Gerald A. Miller

Systematics of low-lying state transition probabilities and excitation energies in the region $30 \leqslant Z \leqslant 38$ and $30 \leqslant N \leqslant 50$ *(5 pages)* 044334
S. L. Rice, Y. Y. Sharon, N. Benczer-Koller, G. J. Kumbartzki, and L. Zamick

(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 88, NUMBER 4** **OCTOBER 2013**

Evidence for shape coexistence in ^{98}Mo *(6 pages)* 044305
T. Thomas, K. Nomura, V. Werner, T. Ahn, N. Cooper, H. Duckwitz, M. Hinton, G. Ilie, J. Jolie, P. Petkov, and D. Radeck

β^- decay of ^{65}Mn to ^{65}Fe *(17 pages)* 044306
B. Olaizola, L. M. Fraile, H. Mach, A. Aprahamian, J. A. Briz, J. Cal-González, D. Ghiţa, U. Köster, W. Kurcewicz, S. R. Lesher, D. Pauwels, E. Picado, A. Poves, D. Radulov, G. S. Simpson, and J. M. Udías

Predictions for superheavy elements beyond $Z = 126$ *(10 pages)* 044307
W. Brodziński and J. Skalski

Level structure of ^{154}Ho *(9 pages)* 044308
Chang-Bum Moon, Tetsuro Komatsubara, and Kohei Furuno

Spectroscopy of ^{135}La *(7 pages)* 044309
R. Leguillon, H. Nishibata, Y. Ito, C. M. Petrache, A. Odahara, T. Shimoda, N. Hamatani, K. Tajiri, J. Takatsu, R. Yokoyama, E. Ideguchi, H. Watanabe, Y. Wakabayashi, K. Yoshinaga, T. Suzuki, S. Nishimura, D. Beaumel, G. Lehaut, D. Guinet, P. Desesquelles, D. Curien, A. Astier, T. Konstantinopoulos, and T. Zerrouki

Systematics of isovector and isoscalar giant quadrupole resonances in normal and superfluid spherical nuclei *(13 pages)* 044310
Guillaume Scamps and Denis Lacroix

Collectivity of light Ge and As isotopes *(10 pages)* 044311
A. Corsi, J.-P. Delaroche, A. Obertelli, T. Baugher, D. Bazin, S. Boissinot, F. Flavigny, A. Gade, M. Girod, T. Glasmacher, G. F. Grinyer, W. Korten, J. Libert, J. Ljungvall, S. McDaniel, A. Ratkiewicz, A. Signoracci, R. Stroberg, B. Sulignano, and D. Weisshaar

Decay of the high-K isomeric state to a rotational band in ^{257}Rf *(9 pages)* 044313
J. Rissanen, R. M. Clark, K. E. Gregorich, J. M. Gates, C. M. Campbell, H. L. Crawford, M. Cromaz, N. E. Esker, P. Fallon, U. Forsberg, O. Gothe, I.-Y. Lee, H. L. Liu, A. O. Machiavelli, P. Mudder, H. Nitsche, G. Pang, A. Rice, D. Rudolph, M. A. Stoyer, A. Wiens, and F. R. Xu

Yrast excitations in the neutron-rich $N = 52$ isotones *(13 pages)* 044314
M. Czerwiński, T. Rząca-Urban, K. Sieja, H. Sliwinska, W. Urban, A. G. Smith, J. F. Smith, G. S. Simpson, I. Ahmad, J. P. Greene, and T. Materna

Spectroscopic factors and asymptotic normalization coefficients for $0p$-shell nuclei: Recent updates *(11 pages)* 044315
N. K. Timofeyuk

Gibbs-Tolman approach to the curved interface effects in asymmetric nuclei *(9 pages)* 044316
V. M. Kolomietz and A. I. Sanzhur

Single-neutron excitations in ^{18}N *(7 pages)* 044317
C. R. Hoffman, M. Albers, M. Alcorta, S. Almaraz-Calderon, B. B. Back, S. I. Baker, S. Bedoor, P. F. Bertone, B. P. Kay, J. C. Lighthall, T. Palchan, R. C. Pardo, G. Perdikakis, K. E. Rehm, A. M. Rogers, D. Santiago-Gonzalez, Cenxi Yuan, and J. P. Schiffer

Ab initio no-core Gamow shell model calculations with realistic interactions *(15 pages)* 044318
G. Papadimitriou, J. Rotureau, N. Michel, M. Płoszajczak, and B. R. Barrett

Role of pairing in the description of giant monopole resonances *(14 pages)* 044319
Paolo Avogadro and Carlos A. Bertulani

Relativistic two-phonon model for the low-energy nuclear response *(11 pages)* 044320
Elena Litvinova, Peter Ring, and Victor Tselyaev

(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 88, NUMBER 4 OCTOBER 2013

Simple correlations between electric quadrupole moments of atomic nuclei *(6 pages)* ..... 041307(R)
J. M. Allmond

Spectroscopy of proton-rich ^{66}Se up to $J^{\pi} = 6^{+}$: Isospin-breaking effect in the $A = 66$ isobaric triplet *(5 pages)* 041308(R)
P. Ruotsalainen, D. G. Jenkins, M. A. Bentley, R. Wadsworth, C. Scholey, K. Auranen, P. J. Davies, T. Grahn, P. T. Greenlees, J. Henderson, A. Herzáň, U. Jakobsson, P. Joshi, R. Julin, S. Juutinen, J. Konki, M. Leino, G. Lotay, A. J. Nichols, A. Obertelli, J. Pakarinen, J. Partanen, P. Peura, P. Rahkila, M. Sandzelius, J. Sarén, J. Sorri, S. Stolze, and J. Uusitalo

Nuclear Reactions

Exploiting neutron-rich radioactive ion beams to constrain the symmetry energy *(5 pages)* ..... 041601(R)
Z. Kohley, G. Christian, T. Baumann, P. A. DeYoung, J. E. Finck, N. Frank, M. Jones, J. K. Smith, J. Snyder, A. Spyrou, and M. Thoennessen

Evaporation-cost dependence in heavy-ion fragmentation *(4 pages)* ..... 041602(R)
L. Audirac, A. Obertelli, P. Doornenbal, D. Mancusi, S. Takeuchi, N. Aoi, H. Baba, S. Boissinot, A. Boudard, A. Corsi, A. Gillibert, T. Isobe, A. Jungclaus, V. Lapoux, J. Lee, S. Leray, K. Matsui, M. Matsushita, T. Motobayashi, D. Nishimura, S. Ota, E. C. Pollacco, G. Potel, H. Sakurai, C. Santamaria, Y. Shiga, D. Sohler, D. Steppenbeck, R. Taniuchi, and H. Wang

Compound nucleus aspect of sub-barrier fusion: A new energy scaling behavior *(4 pages)* ..... 041603(R)
Roman Wolski

ARTICLES

Nucleon-Nucleon Interaction, Few-Body Systems

Fully perturbative calculation of *nd* scattering to next-to-next-to-leading order *(21 pages)* 044001
Jared Vanasse

Two-photon exchange in electron-trinucleon elastic scattering *(12 pages)* 044002
A. P. Kobushkin and Ju. V. Timoshenko

$\bar{K}NN$ absorption within the framework of the fixed-center approximation to Faddeev equations *(8 pages)* 044003
M. Bayar and E. Oset

Self-consistent random-phase approximation from a coupled-cluster wave function perspective *(12 pages)* 044004
M. Jemaï, D. S. Delion, and P. Schuck

Nuclear Structure

Half-life of the yrast 2^{+} state in ^{188}W: Evolution of deformation and collectivity in neutron-rich tungsten isotopes *(6 pages)* 044301
P. J. R. Mason *et al.*

Symmetric nuclear matter with chiral three-nucleon forces in the self-consistent Green's functions approach *(11 pages)* 044302
Arianna Carbone, Artur Polls, and Arnau Rios

Particle-number-conserving theory for nuclear pairing *(6 pages)* 044303
L. Y. Jia (贾力源)

Photoresponse of ^{60}Ni below 10-MeV excitation energy: Evolution of dipole resonances in fp-shell nuclei near $N = Z$ *(19 pages)* 044304
M. Scheck, V. Yu. Ponomarev, M. Fritzsche, J. Joubert, T. Aumann, J. Beller, J. Isaak, J. H. Kelley, E. Kwan, N. Pietralla, R. Raut, C. Romig, G. Rusev, D. Savran, L. Schorrenberger, K. Sonnabend, A. P. Tonchev, W. Tornow, H. R. Weller, A. Zilges, and M. Zweidinger

(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™

For editorial and subscription correspondence, please see inside front cover
(ISSN: 0556-2813)

PERIODICALS
Postmaster send address changes to:

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

THIRD SERIES, VOLUME 88, NUMBER 4 *CONTENTS* **OCTOBER 2013**

RAPID COMMUNICATIONS

Nucleon-Nucleon Interaction, Few-Body Systems

Search for evidence of ${}^{3}_{\Lambda}n$ by observing $d + \pi^-$ and $t + \pi^-$ final states in the reaction of ^{6}Li + ^{12}C at 2A GeV *(6 pages)* . . . . . 041001(R)
C. Rappold *et al*. (HypHI Collaboration)

Nuclear Structure

Phenomenological model of β-delayed neutron-emission probability *(4 pages)* . . . . . 041301(R)
K. Miernik

Configuration mixing and relative transition rates between low-spin states in ^{68}Ni *(6 pages)* . . . . . 041302(R)
F. Recchia, C. J. Chiara, R. V. F. Janssens, D. Weisshaar, A. Gade, W. B. Walters, M. Albers, M. Alcorta, V. M. Bader, T. Baugher, D. Bazin, J. S. Berryman, P. F. Bertone, B. A. Brown, C. M. Campbell, M. P. Carpenter, J. Chen, H. L. Crawford, H. M. David, D. T. Doherty, C. R. Hoffman, F. G. Kondev, A. Korichi, C. Langer, N. Larson, T. Lauritsen, S. N. Liddick, E. Lunderberg, A. O. Macchiavelli, S. Noji, C. Prokop, A. M. Rogers, D. Seweryniak, S. R. Stroberg, S. Suchyta, S. Williams, K. Wimmer, and S. Zhu

Possible experimental signature of octupole correlations in the 0_2^+ states of the actinides *(6 pages)* . . . . . 041303(R)
M. Spieker, D. Bucurescu, J. Endres, T. Faestermann, R. Hertenberger, S. Pascu, S. Skalacki, S. Weber, H.-F. Wirth, N.-V. Zamfir, and A. Zilges

Behavior of odd-even mass staggering around ^{132}Sn *(3 pages)* . . . . . 041304(R)
L. Coraggio, A. Covello, A. Gargano, and N. Itaco

Extreme nonstatistical effects in γ decay of ^{95}Mo neutron resonances *(5 pages)* . . . . . 041305(R)
P. E. Koehler, A. C. Larsen, M. Guttormsen, S. Siem, and K. H. Guber

Identification of triaxial strongly deformed bands in ^{164}Hf *(5 pages)* . . . . . 041306(R)
J. C. Marsh, W. C. Ma, G. B. Hagemann, R. V. F. Janssens, R. Bengtsson, H. Ryde, M. P. Carpenter, G. Gürdal, D. J. Hartley, C. R. Hoffman, Q. A. Ijaz, F. G. Kondev, T. Lauritsen, S. Mukhopadhyay, L. L. Riedinger, R. B. Yadav, and S. Zhu

Copyright 2013 by American Physical Society

0556-2813(201310)88:4;1-H

(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).