CONTENTS - ***Continued***

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 94, NUMBER 3** **SEPTEMBER 2016**

Neutron star radii and crusts: Uncertainties and unified equations of state *(21 pages)* 035804
M. Fortin, C. Providência, Ad. R. Raduta, F. Gulminelli, J. L. Zdunik, P. Haensel, and M. Bejger

Hyperon stars in a modified quark meson coupling model *(11 pages)* 035805
R. N. Mishra, H. S. Sahoo, P. K. Panda, N. Barik, and T. Frederico

ERRATA

Erratum: SPACS: A semi-empirical parameterization for isotopic spallation cross sections
[Phys. Rev. C **90**, 064605 (2014)] *(5 pages)* . . . . . 039901(E)
C. Schmitt, K.-H. Schmidt, and A. Kelić-Heil

PHYSICAL REVIEW C THIRD SERIES, VOLUME 94, NUMBER 3 SEPTEMBER 2016

Removing the influence of centrality fluctuations in the analysis of forward-backward multiplicity correlations in heavy-ion collisions *(9 pages)* 034902
Ronghua He, Jing Qian, and Lei Huo

Measurement of transverse energy at midrapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV *(19 pages)* 034903
J. Adam *et al.* (ALICE Collaboration)

Colliding solitary waves in quark gluon plasmas *(8 pages)* 034904
Azam Rafiei and Kurosh Javidan

Non-Gaussian eccentricity fluctuations *(13 pages)* 034905
Hanna Grönqvist, Jean-Paul Blaizot, and Jean-Yves Ollitrault

Examination of directed flow as a signature of the softest point of the equation of state in QCD matter *(10 pages)* 034906
Yasushi Nara, Harri Niemi, Akira Ohnishi, and Horst Stöcker

Measurement of elliptic flow of light nuclei at $\sqrt{s_{NN}} = 200$, 62.4, 39, 27, 19.6, 11.5, and 7.7 GeV at the BNL Relativistic Heavy Ion Collider *(12 pages)* 034908
L. Adamczyk *et al.* (STAR Collaboration)

Importance of separated efficiencies between positively and negatively charged particles for cumulant calculations *(9 pages)* 034909
Toshihiro Nonaka, Tetsuro Sugiura, ShinIchi Esumi, Hiroshi Masui, and Xiaofeng Luo

Hadronic Physics and QCD

Flavor dependence of the pion and kaon form factors and parton distribution functions *(10 pages)* 035201
Parada T. P. Hutauruk, Ian C. Cloët, and Anthony W. Thomas

Combined analysis of the $\pi^- p \to K^0\Lambda$, ηn reactions in a chiral quark model *(13 pages)* 035202
Li-Ye Xiao, Fan Ouyang, Kai-Lei Wang, and Xian-Hui Zhong

Electroweak Interaction, Symmetries

Polarized proton-deuteron scattering as a test of time-reversal invariance *(5 pages)* 035501
Yu. N. Uzikov and J. Haidenbauer

Neutrino-induced reactions on nuclei *(15 pages)* 035502
K. Gallmeister, U. Mosel, and J. Weil

Kinematic sensitivity to the Fierz term of β-decay differential spectra *(7 pages)* 035503
M. González-Alonso and O. Naviliat-Cuncic

Role of the atomic electron shell in the double β decay *(3 pages)* 035504
E. G. Drukarev, M. Ya. Amusia, and L. V. Chernysheva

Nuclear Astrophysics

Role of (α, n) reactions under r-process conditions in neutrino-driven winds reexamined *(7 pages)* 035801
Peter Mohr

Carbon-oxygen-neon mass nuclei in superstrong magnetic fields *(8 pages)* 035802
Martin Stein, Joachim Maruhn, Armen Sedrakian, and P.-G. Reinhard

Quark-Pauli effects in three octet-baryons *(9 pages)* 035803
C. Nakamoto and Y. Suzuki

(Continued)

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 94, NUMBER 3** **SEPTEMBER 2016**

Results of the ASY-EOS experiment at GSI: The symmetry energy at suprasaturation density *(23 pages)* 034608
P. Russotto *et al.*

Implications for (d,p) reaction theory from nonlocal dispersive optical model analysis of ^{40}Ca$(d,p)^{41}$Ca *(13 pages)* 034609
S. J. Waldecker and N. K. Timofeyuk

Mass dependence and isospin dependence of short-range correlated pairs *(3 pages)* 034610
U. Mosel and K. Gallmeister

Total kinetic energy release in ^{239}Pu(n,f) post-neutron emission from 0.5 to 50 MeV incident neutron energy *(5 pages)* 034611
K. Meierbachtol, F. Tovesson, D. L. Duke, V. Geppert-Kleinrath, B. Manning, R. Meharchand, S. Mosby, and D. Shields

Nuclear mean field and double-folding model of the nucleus-nucleus optical potential *(16 pages)* 034612
Dao T. Khoa, Nguyen Hoang Phuc, Doan Thi Loan, and Bui Minh Loc

Effect of coupling in the ^{28}Si + ^{154}Sm reaction studied by quasi-elastic scattering *(9 pages)* 034613
Gurpreet Kaur, B. R. Behera, A. Jhingan, B. K. Nayak, R. Dubey, Priya Sharma, Meenu Thakur, Ruchi Mahajan, N. Saneesh, Tathagata Banerjee, Khushboo, A. Kumar, S. Mandal, A. Saxena, P. Sugathan, and N. Rowley

Distinction between elastic scattering of weakly bound proton- and neutron-rich nuclei: The case of ^{8}B and ^{11}Be *(5 pages)* 034614
Y. Y. Yang, X. Liu, and D. Y. Pang

Theoretical study of effects of the entrance channel on the relative yield of complete fusion and quasifission in heavy-ion collisions within a dinuclear system approach *(12 pages)* 034615
S. Soheyli and M. Varasteh Khanlari

Synthesis of superheavy elements: Uncertainty analysis to improve the predictive power of reaction models *(12 pages)* 034616
Hongliang Lü, David Boilley, Yasuhisa Abe, and Caiwan Shen

Measurement of neutron capture on ^{136}Xe *(8 pages)* 034617
J. B. Albert, S. J. Daugherty, T. N. Johnson, T. O'Conner, L. J. Kaufman, A. Couture, J. L. Ullmann, and M. Krtička

Experimental study of the $pd(dp) \rightarrow {}^{3}\mathrm{He}\,\pi\pi$ reactions close to threshold *(9 pages)* 034618
F. Bellemann, A. Berg, J. Bisplinghoff, G. Bohlscheid, J. Ernst, C. Henrich, F. Hinterberger, R. Ibald, R. Jahn, R. Joosten, K. Kilian, A. Kozela, H. Machner, A. Magiera, J. Munkel, P. von Neumann-Cosel, P. von Rossen, H. Schnitker, K. Scho, J. Smyrski, R. Tölle, and C. Wilkin (The COSY-MOMO Collaboration)

Correlation between symmetry energy and effective k-mass splitting with an improved isospin- and momentum-dependent interaction *(8 pages)* 034619
Jun Su, Long Zhu, Ching-Yuan Huang, Wen-Jie Xie, and Feng-Shou Zhang

Excitation function shape and neutron spectrum of the ^{7}Li$(p,n)^{7}$Be reaction near threshold *(10 pages)* 034620
Guido Martín-Hernández, Pierfrancesco Mastinu, Mario Maggiore, Lorenzo Pranovi, Gianfranco Prete, Javier Praena, Roberto Capote-Noy, Fabiana Gramegna, Augusto Lombardi, Luca Maran, Carlo Scian, and Enrico Munaron

Relativistic Nuclear Collisions

Hadronization time of heavy quarks in nuclear matter *(6 pages)* 034901
Taesoo Song and Hamza Berrehrah

(Continued)

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 94, NUMBER 3** **SEPTEMBER 2016**

Power of two: Assessing the impact of a second measurement of the weak-charge form factor of ^{208}Pb *(10 pages)* 034316
J. Piekarewicz, A. R. Linero, P. Giuliani, and E. Chicken

Electric dipole polarizability from first principles calculations *(12 pages)* 034317
M. Miorelli, S. Bacca, N. Barnea, G. Hagen, G. R. Jansen, G. Orlandini, and T. Papenbrock

γ-ray spectroscopy of ^{33}P and ^{33}S after fusion-evaporation reactions *(11 pages)* 034318
B. Fu, M. Seidlitz, A. Blazhev, M. Bouhelal, F. Haas, P. Reiter, K. Arnswald, B. Birkenbach, C. Fransen, G. Friessner, A. Hennig, H. Hess, R. Hirsch, L. Lewandowski, D. Schneiders, B. Siebeck, T. Steinbach, T. Thomas, A. Vogt, A. Wendt, K. Wolf, and K. O. Zell

Proton-neutron versus α-like correlations above ^{100}Sn *(6 pages)* 034319
V. V. Baran and D. S. Delion

Occupation probabilities of single particle levels using the microscopic interacting boson model: Application to some nuclei of interest in neutrinoless double-β decay *(11 pages)* 034320
J. Kotila and J. Barea

Deformation of the proton emitter ^{113}Cs from electromagnetic transition and proton-emission rates *(8 pages)* 034321
D. Hodge, D. M. Cullen, M. J. Taylor, B. S. Nara Singh, L. S. Ferreira, E. Maglione, J. F. Smith, C. Scholey, P. Rahkila, T. Grahn, T. Braunroth, H. Badran, L. Capponi, A. Girka, P. T. Greenlees, R. Julin, J. Konki, M. Mallaburn, O. Nefodov, G. G. O'Neill, J. Pakarinen, P. Papadakis, J. Partanen, P. Ruotsalainen, M. Sandzelius, J. Sarén, M. Smolen, J. Sorri, S. Stolze, and J. Uusitalo

Electric dipole response of neutron-rich calcium isotopes in relativistic quasiparticle time blocking approximation *(8 pages)* 034322
Irina A. Egorova and Elena Litvinova

Nuclear Reactions

Evidence for a dynamically refracted primary bow in weakly bound ^{9}Be rainbow scattering from ^{16}O *(5 pages)* 034601
S. Ohkubo and Y. Hirabayashi

Evidence for L-dependence generated by channel coupling: ^{16}O scattering from ^{12}C at 115.9 MeV *(9 pages)* 034602
R. S. Mackintosh

Importance of resonance widths in low-energy scattering of weakly bound light-mass nuclei *(6 pages)* 034603
P. R. Fraser, K. Massen-Hane, K. Amos, I. Bray, L. Canton, R. Fossión, A. S. Kadyrov, S. Karataglidis, J. P. Svenne, and D. van der Knijff

Imaginary part of the ^{9}C-^{9}Be single-folded optical potential *(8 pages)* 034604
A. Bonaccorso, F. Carstoiu, and R. J. Charity

Light charged particles emitted in fission reactions induced by protons on ^{208}Pb *(8 pages)* 034605
J. L. Rodríguez-Sánchez, J. Benlliure, C. Paradela, Y. Ayyad, E. Casarejos, H. Alvarez-Pol, L. Audouin, G. Bélier, G. Boutoux, A. Chatillon, D. Cortina-Gil, T. Gorbinet, A. Heinz, A. Kelić-Heil, B. Laurent, J.-F. Martin, E. Pellereau, B. Pietras, D. Ramos, C. Rodríguez-Tajes, D. M. Rossi, H. Simon, J. Taïeb, J. Vargas, and B. Voss

Global analysis of isospin dependent microscopic nucleon-nucleus optical potentials in a Dirac-Brueckner-Hartree-Fock approach *(16 pages)* 034606
Ruirui Xu (续瑞瑞), Zhongyu Ma (马中玉), Yue Zhang (张玥), Yuan Tian (田源), E. N. E. van Dalen, and H. Müther

Preequilibrium neutron emission in heavy ion reaction: Mean field effect and multiple emission *(10 pages)* 034607
Sabyasachi Paul, Maitreyee Nandy, A. K. Mohanty, and Y. K. Gambhir

(Continued)

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 94, NUMBER 3** **SEPTEMBER 2016**

Magnetic moment and lifetime measurements of Coulomb-excited states in ^{106}Cd *(6 pages)* 034303
N. Benczer-Koller, G. J. Kumbartzki, K.-H. Speidel, D. A. Torres, S. J. Q. Robinson, Y. Y. Sharon, J. M. Allmond, P. Fallon, I. Abramovic, L. A. Bernstein, J. E. Bevins, H. L. Crawford, Z. E. Guevara, A. M. Hurst, L. Kirsch, T. A. Laplace, A. Lo, E. F. Matthews, I. Mayers, L. W. Phair, F. Ramirez, and A. Wiens

Direct experimental evidence for a multiparticle-hole ground state configuration of deformed ^{33}Mg *(6 pages)* 034304
Ushasi Datta *et al.*

Effects of proton angular momentum alignment on the two-shears-like mechanism in ^{101}Pd *(7 pages)* 034305
Zhen-Hua Zhang (张振华)

Application of an extended random-phase approximation to giant resonances in light-, medium-, and heavy-mass nuclei *(15 pages)* 034306
V. Tselyaev, N. Lyutorovich, J. Speth, S. Krewald, and P.-G. Reinhard

Observation of high-spin bands with large moments of inertia in ^{124}Xe *(10 pages)* 034307
Somnath Nag, A. K. Singh, G. B. Hagemann, G. Sletten, B. Herskind, T. Døssing, I. Ragnarsson, H. Hübel, A. Bürger, S. Chmel, A. N. Wilson, J. Rogers, M. P. Carpenter, R. V. F. Janssens, T. L. Khoo, F. G. Kondev, T. Lauritsen, S. Zhu, A. Korichi, E. A. Stefanova, P. Fallon, B. M. Nyakó, J. Timár, and K. Juhász

β-delayed fission and α decay of ^{196}At *(11 pages)* 034308
V. L. Truesdale, A. N. Andreyev, L. Ghys, M. Huyse, P. Van Duppen, S. Sels, B. Andel, S. Antalic, A. Barzakh, L. Capponi, T. E. Cocolios, X. Derkx, H. De Witte, J. Elseviers, D. V. Fedorov, V. N. Fedosseev, F. P. Heßberger, Z. Kalaninová, U. Köster, J. F. W. Lane, V. Liberati, K. M. Lynch, B. A. Marsh, S. Mitsuoka, Y. Nagame, K. Nishio, S. Ota, D. Pauwels, L. Popescu, D. Radulov, E. Rapisarda, S. Rothe, K. Sandhu, M. D. Seliverstov, A. M. Sjödin, C. Van Beveren, P. Van den Bergh, and Y. Wakabayashi

One-neutron transfer study of ^{137}Xe and systematics of $13/2^+_1$ and $13/2^+_2$ levels in $N = 83$ nuclei *(10 pages)* 034309
W. Reviol, D. G. Sarantites, J. M. Elson, J. E. Kinnison, A. Gargano, S. Bottoni, R. V. F. Janssens, J. M. Allmond, A. D. Ayangeakaa, M. P. Carpenter, H. M. David, A. Galindo-Uribarri, N. Itaco, T. Lauritsen, E. Padilla-Rodal, and S. Zhu

Shell-model configuration-interaction description of quadrupole collectivity in Te isotopes *(6 pages)* 034310
Chong Qi

Second-order equation of state with the Skyrme interaction: Cutoff and dimensional regularization with the inclusion of rearrangement terms *(20 pages)* 034311
C. J. Yang, M. Grasso, X. Roca-Maza, G. Colò, and K. Moghrabi

High-precision quadrupole moment reveals significant intruder component in $^{33}_{13}Al_{20}$ ground state *(5 pages)* 034312
H. Heylen, M. De Rydt, G. Neyens, M. L. Bissell, L. Caceres, R. Chevrier, J. M. Daugas, Y. Ichikawa, Y. Ishibashi, O. Kamalou, T. J. Mertzimekis, P. Morel, J. Papuga, A. Poves, M. M. Rajabali, C. Stödel, J. C. Thomas, H. Ueno, Y. Utsuno, N. Yoshida, and A. Yoshimi

^{8}Be + ^{8}Be and ^{12}C + α breakup states in ^{16}O populated via the ^{13}C(^{4}He,4α)n reaction *(10 pages)* 034313
N. Curtis, S. Almaraz-Calderon, A. Aprahamian, N. I. Ashwood, M. Barr, B. Bucher, P. Copp, M. Couder, X. Fang, M. Freer, G. Goldring, F. Jung, S. R. Lesher, W. Lu, J. D. Malcolm, A. Roberts, W. P. Tan, C. Wheldon, and V. A. Ziman

Nuclear Zemach moments and finite-size corrections to allowed β decay *(8 pages)* 034314
X. B. Wang, J. L. Friar, and A. C. Hayes

Isoscalar $E0$, $E1$, $E2$, and $E3$ strength in ^{94}Mo *(6 pages)* 034315
J. Button, Y.-W. Lui, D. H. Youngblood, X. Chen, G. Bonasera, and S. Shlomo

(Continued)

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 94, NUMBER 3 *CONTENTS* **SEPTEMBER 2016**

RAPID COMMUNICATIONS

Nuclear Structure

From dilute matter to the equilibrium point in the energy-density-functional theory *(5 pages)* . . . . . 031301(R)
C. J. Yang, M. Grasso, and D. Lacroix

Relativistic Nuclear Collisions

Probing multistrange dibaryons with proton-omega correlations in high-energy heavy ion collisions *(5 pages)* . . . . 031901(R)
Kenji Morita, Akira Ohnishi, Faisal Etminan, and Tetsuo Hatsuda

ARTICLES

Nucleon-Nucleon Interaction, Few-Body Systems

Regulator artifacts in uniform matter for chiral interactions *(27 pages)* 034001
A. Dyhdalo, R. J. Furnstahl, K. Hebeler, and I. Tews

Muon capture on ^{3}H *(11 pages)* 034002
J. Golak, R. Skibiński, H. Witała, K. Topolnicki, H. Kamada, A. Nogga, and L. E. Marcucci

Description of light nuclei in pionless effective field theory using the stochastic variational method *(15 pages)* . . . 034003
Vadim Lensky, Michael C. Birse, and Niels R. Walet

Di-neutrons in neutron matter within a Brueckner-Hartree-Fock approach *(10 pages)* 034004
Felipe Isaule, H. F. Arellano, and Arnau Rios

Nuclear Structure

Single-particle and collective excitations in ^{62}Ni *(10 pages)* 034301
M. Albers, S. Zhu, A. D. Ayangeakaa, R. V. F. Janssens, J. Gellanki, I. Ragnarsson, M. Alcorta, T. Baugher, P. F. Bertone, M. P. Carpenter, C. J. Chiara, P. Chowdhury, H. M. David, A. N. Deacon, B. DiGiovine, A. Gade, C. R. Hoffman, F. G. Kondev, T. Lauritsen, C. J. Lister, E. A. McCutchan, C. Nair, A. M. Rogers, and D. Seweryniak

Measurement of picosecond lifetimes in neutron-rich Xe isotopes *(8 pages)* 034302
S. Ilieva, Th. Kröll, J.-M. Régis, N. Saed-Samii, A. Blanc, A. M. Bruce, L. M. Fraile, G. de France, A.-L. Hartig, C. Henrich, A. Ignatov, M. Jentschel, J. Jolie, W. Korten, U. Köster, S. Lalkovski, R. Lozeva, H. Mach, N. Mărginean, P. Mutti, V. Paziy, P. H. Regan, G. S. Simpson, T. Soldner, M. Thürauf, C. A. Ur, W. Urban, and N. Warr

Copyright 2016 by American Physical Society

2469-9985(201609)94:3;1-4

(Continued)