CONTENTS - *Continued*

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 84, NUMBER 5** **NOVEMBER 2011**

Erratum: Half-Skyrmions, tensor forces, and symmetry energy in cold dense matter
[Phys. Rev. C **83**, 025206 (2011)] *(1 page)* . . . . . 059902(E)
Hyun Kyu Lee, Byung-Yoon Park, and Mannque Rho

Publisher's Note: $\gamma\gamma$ angular-correlation analysis of ^{200}Hg after cold-neutron capture
[Phys. Rev. C **84**, 047304 (2011)] *(1 page)* . . . . . 059903(E)
C. Bernards, W. Urban, M. Jentschel, B. Märkisch, J. Jolie, C. Fransen, U. Köster, T. Materna, G. S. Simpson, and T. Thomas

Erratum: Nuclear response for the Skyrme effective interaction with zero-range tensor terms
[Phys. Rev. C **80**, 024314 (2009)] *(3 pages)* . . . . . 059904(E)
D. Davesne, M. Martini, K. Bennaceur, and J. Meyer

Publisher's Note: Q_{EC} values of the superallowed β emitters ^{10}C, ^{34}Ar, ^{38}Ca, and ^{46}V
[Phys. Rev. C **83**, 055501 (2011)] *(1 page)* . . . . . 059905(E)
T. Eronen, D. Gorelov, J. Hakala, J. C. Hardy, A. Jokinen, A. Kankainen, V. S. Kolhinen, I. D. Moore, H. Penttilä, M. Reponen, J. Rissanen, A. Saastamoinen, and J. Äystö

Erratum: Final excitation energy of fission fragments [Phys. Rev. C **83**, 061601(R) (2011)] *(1 page)* . . . . . 059906(E)
Karl-Heinz Schmidt and Beatriz Jurado

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.

PHYSICAL REVIEW C THIRD SERIES, VOLUME 84, NUMBER 5 NOVEMBER 2011

^{96}Zr(n,γ) measurement at the n_TOF facility at CERN *(8 pages)* 055802
G. Tagliente *et al*. (n_TOF Collaboration)

Total reaction cross sections from ^{141}Pr(α,α)^{141}Pr elastic scattering and α-induced reaction cross sections at low energies *(11 pages)* 055803
Peter Mohr

Light clusters in nuclear matter: Excluded volume versus quantum many-body approaches *(11 pages)* 055804
Matthias Hempel, Jürgen Schaffner-Bielich, Stefan Typel, and Gerd Röpke

Photoneutron cross sections for $^{118–124}$Sn and the γ-ray strength function method *(6 pages)* 055805
H. Utsunomiya, S. Goriely, M. Kamata, H. Akimune, T. Kondo, O. Itoh, C. Iwamoto, T. Yamagata, H. Toyokawa, Y.-W. Lui, H. Harada, F. Kitatani, S. Goko, S. Hilaire, and A. J. Koning

Unbound states of ^{32}Cl and the ^{31}S(p,γ)^{32}Cl reaction rate *(10 pages)* 055806
M. Matoš, J. C. Blackmon, L. E. Linhardt, D. W. Bardayan, C. D. Nesaraja, J. A. Clark, C. M. Deibel, P. D. O'Malley, and P. D. Parker

BRIEF REPORTS

Renormalizing chiral nuclear forces: A case study of $^3P_0$ *(4 pages)* 057001
Bingwei Long and C.-J. Yang

Effect of proton-proton Coulomb repulsion on soft dipole excitations of light proton-rich nuclei *(3 pages)* 057301
T. Oishi, K. Hagino, and H. Sagawa

In-beam γ spectroscopy of the odd-Z nucleus ^{139}Pm *(4 pages)* 057302
N. T. Zhang, Y. H. Zhang, X. H. Zhou, M. L. Liu, Y. Zheng, J. G. Wang, Y. D. Fang, B. Ding, W. J. Huang, Y. X. Guo, X. G. Lei, L. Chen, S. T. Wang, X. G. Wu, and Y. Zheng

Relativistic mean field in $A \approx 80$ nuclei and low-energy proton reactions *(4 pages)* 057601
Chirashree Lahiri and G. Gangopadhyay

Influence of charge asymmetry and isospin-dependent cross section on nuclear stopping *(4 pages)* 057602
Anupriya Jain, Suneel Kumar, and Rajeev K. Puri

Two-photon decays and photoproduction on electrons of $\eta(550)$, $\eta'(958)$, $\eta(1295)$, and $\eta(1475)$ mesons *(4 pages)* 058201
A. B. Arbuzov and M. K. Volkov

One fewer solution to the cosmological lithium problem *(3 pages)* 058801
O. S. Kirsebom and B. Davids

COMMENTS

Comment on "Properties of ^{26}Mg and ^{26}Si in the *sd* shell model and the determination of the ^{25}Al(p,γ)^{26}Si reaction rate" *(2 pages)* 059801
K. A. Chipps, D. W. Bardayan, K. Y. Chae, J. A. Cizewski, R. L. Kozub, J. F. Liang, C. Matei, P. D. O'Malley, S. D. Pain, W. A. Peters, S. T. Pittman, and M. S. Smith

Reply to "Comment on 'Properties of ^{26}Mg and ^{26}Si in the *sd* shell model and the determination of the ^{25}Al(p,γ)^{26}Si reaction rate' " *(2 pages)* 059802
W. A. Richter, B. Alex Brown, A. Signoracci, and M. Wiescher

ERRATA

Publisher's Note: Renormalization persistency of the tensor force in nuclei [Phys. Rev. C **84**, 044322 (2011)] *(1 page)* 059901(E)
Naofumi Tsunoda, Takaharu Otsuka, Koshiroh Tsukiyama, and Morten Hjorth-Jensen

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 84, NUMBER 5** **NOVEMBER 2011**

Hard dihadron correlations in heavy-ion collisions at energies available at the BNL Relativistic Heavy Ion Collider and CERN Large Hadron Collider *(12 pages)* 054913
Thorsten Renk and Kari J. Eskola

J/ψ production in proton-induced collisions at energies available at the GSI Facility for Antiproton and Ion Research *(16 pages)* 054914
Partha Pratim Bhaduri, A. K. Chaudhuri, and Subhasis Chattopadhyay

Longitudinal dependence of two-particle momentum correlations from the hydrodynamic flow model NEXSPHERIO *(7 pages)* 054915
Monika Sharma, Claude Pruneau, Sean Gavin, Jun Takahashi, R. Derradi de Souza, and T. Kodama

Antimatter production in proton-proton and heavy-ion collisions at ultrarelativistic energies *(7 pages)* 054916
J. Cleymans, S. Kabana, I. Kraus, H. Oeschler, K. Redlich, and N. Sharma

Dilepton production in nucleus-nucleus collisions at top CERN Super Proton Synchrotron energy of 158A GeV within the parton-hadron-string dynamics transport approach *(16 pages)* 054917
O. Linnyk, E. L. Bratkovskaya, V. Ozvenchuk, W. Cassing, and C. M. Ko

Hadronic Physics and QCD

Electromagnetic form factors in the relativistic interacting quark-diquark model of baryons *(5 pages)* 055201
M. De Sanctis, J. Ferretti, E. Santopinto, and A. Vassallo

Baryon stopping and partonic plasma production by strong chromofields *(13 pages)* 055202
K. A. Lyakhov, H. J. Lee, and I. N. Mishustin

Photoproduction of neutral pions off protons *(11 pages)* 055203
V. Crede *et al*. (The CBELSA/TAPS Collaboration)

Low-Q^2 measurements of the proton form factor ratio $\mu_p G_E/G_M$ *(11 pages)* 055204
G. Ron *et al*. (The Jefferson Lab Hall A Collaboration)

QCD sum rules for the baryon octet in nuclear matter *(13 pages)* 055205
E. L. Kryshen

Baryon kinetic energy loss in the color flux tube model *(6 pages)* 055206
K. A. Lyakhov and H. J. Lee

Comparison of inclusive K^+ production in proton-proton and proton-neutron collisions *(6 pages)* 055207
Yu. Valdau, V. Koptev, S. Barsov, M. Büscher, A. Dzyuba, M. Hartmann, A. Kacharava, I. Keshelashvili, A. Khoukaz, S. Mikirtychiants, M. Nekipelov, A. Polyanskiy, F. Rathmann, H. Ströher, Yu. N. Uzikov, and C. Wilkin

Chiral symmetry in the low-energy limit of QCD at finite temperature *(7 pages)* 055208
Marco Frasca

Electroweak Interaction, Symmetries

Low-energy test of second-class current in β decays of spin-aligned ^{20}F and ^{20}Na *(21 pages)* 055501
K. Minamisono, T. Nagatomo, K. Matsuta, C. D. P. Levy, Y. Tagishi, M. Ogura, M. Yamaguchi, H. Ota, J. A. Behr, K. P. Jackson, A. Ozawa, M. Fukuda, T. Sumikama, H. Fujiwara, T. Iwakoshi, R. Matsumiya, M. Mihara, A. Chiba, Y. Hashizume, T. Yasuno, and T. Minamisono

Neutrino quasielastic interaction and nuclear dynamics *(7 pages)* 055502
M. Martini, M. Ericson, and G. Chanfray

Nuclear Astrophysics

Probing the microscopic nuclear matter self-organization processes in the neutron star crust *(10 pages)* 055801
F. Sébille, V. de la Mota, and S. Figerou

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.

PHYSICAL REVIEW C THIRD SERIES, VOLUME 84, NUMBER 5 NOVEMBER 2011

Improvements to a model of projectile fragmentation *(9 pages)* 054612
S. Mallik, G. Chaudhuri, and S. Das Gupta

Elastic, inelastic, and one-nucleon transfer processes in ^{48}Ca + ^{64}Ni *(9 pages)* 054613
D. Montanari, S. Leoni, L. Corradi, G. Pollarolo, G. Benzoni, N. Blasi, S. Bottoni, A. Bracco, F. Camera, A. Corsi, F. C. L. Crespi, B. Million, R. Nicolini, O. Wieland, G. de Angelis, F. Della Vedova, E. Fioretto, A. Gadea, B. Guiot, D. Mengoni, D. R. Napoli, R. Orlandi, F. Recchia, A. M. Stefanini, R. P. Singh, J. J. Valiente-Dobon, D. Bazzacco, E. Farnea, S. M. Lenzi, S. Lunardi, G. Montagnoli, F. Scarlassara, C. Ur, G. Lo Bianco, A. Zucchiatti, S. Szilner, M. Kmiecik, A. Maj, and W. Meczynski

Cluster transfer in the reaction ^{16}O + ^{208}Pb at energies well below the fusion barrier: A possible doorway to energy dissipation *(8 pages)* 054614
M. Evers, M. Dasgupta, D. J. Hinde, D. H. Luong, R. Rafiei, R. du Rietz, and C. Simenel

Molecular structures in $T = 1$ states of ^{10}B *(9 pages)* 054615
A. N. Kuchera, G. V. Rogachev, V. Z. Goldberg, E. D. Johnson, S. Cherubini, M. Gulino, M. La Cognata, L. Lamia, S. Romano, L. E. Miller, R. G. Pizzone, G. G. Rapisarda, M. L. Sergi, C. Spitaleri, R. E. Tribble, W. H. Trzaska, and A. Tumino

Relativistic Nuclear Collisions

Understanding anisotropy generated by fluctuations in heavy-ion collisions *(8 pages)* 054901
Rajeev S. Bhalerao, Matthew Luzum, and Jean-Yves Ollitrault

Determination of the quark content of scalar mesons using hydrodynamical flow in heavy ion collisions *(6 pages)* 054902
M. Wussow and N. Grau

Flow of heavy flavor in hydrodynamics for relativistic heavy ion collisions *(7 pages)* 054903
Taesoo Song, Woosung Park, and Su Houng Lee

Meson spectra and m_T scaling in $p + p$, d + Au, and Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV *(9 pages)* 054904
P. K. Khandai, P. Shukla, and V. Singh

Energy dependent growth of the nucleon and hydrodynamic initial conditions *(6 pages)* 054905
Ulrich Heinz and J. Scott Moreland

Thermal photons and collective flow at energies available at the BNL Relativistic Heavy-Ion Collider *(9 pages)* 054906
Hendrik van Hees, Charles Gale, and Ralf Rapp

Prospects for quarkonia production studies in U + U collisions *(11 pages)* 054907
Daniel Kikoła, Grazyna Odyniec, and Ramona Vogt

Longitudinal correlation of the triangular flow event plane in a hybrid approach with hadron and parton cascade initial conditions *(5 pages)* 054908
Hannah Petersen, Vivek Bhattacharya, Steffen A. Bass, and Carsten Greiner

Fluctuations of the number of participants and binary collisions in AA interactions at fixed centrality in the Glauber approach *(12 pages)* 054909
V. V. Vechernin and H. S. Nguyen

Quark polarization in a viscous quark-gluon plasma *(8 pages)* 054910
Xu-Guang Huang, Pasi Huovinen, and Xin-Nian Wang

Calculation of shear viscosity using Green-Kubo relations within a parton cascade *(7 pages)* 054911
C. Wesp, A. El, F. Reining, Z. Xu, I. Bouras, and C. Greiner

J/ψ suppression at forward rapidity in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV *(14 pages)* 054912
A. Adare *et al.* (PHENIX Collaboration)

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 84, NUMBER 5** **NOVEMBER 2011**

Quadrupole collective inertia in nuclear fission: Cranking approximation *(9 pages)* 054321
A. Baran, J. A. Sheikh, J. Dobaczewski, W. Nazarewicz, and A. Staszczak

Level density of 2^+ states in ^{40}Ca from high-energy-resolution (p,p') experiments *(8 pages)* 054322
I. Usman, Z. Buthelezi, J. Carter, G. R. J. Cooper, R. W. Fearick, S. V. Förtsch, H. Fujita, Y. Kalmykov, P. von Neumann-Cosel, R. Neveling, I. Poltoratska, A. Richter, A. Shevchenko, E. Sideras-Haddad, F. D. Smit, and J. Wambach

Investigation of octupole vibrational states in ^{150}Nd via inelastic proton scattering $(p,p'\gamma)$ *(8 pages)* 054323
M. Elvers, S. Pascu, T. Ahmed, T. Ahn, V. Anagnostatou, N. Cooper, C. Deng, J. Endres, P. Goddard, A. Heinz, G. Ilie, E. Jiang, C. Küppersbusch, D. Radeck, D. Savran, N. Shenkov, V. Werner, and A. Zilges

Pairing reentrance in hot rotating nuclei *(8 pages)* 054324
N. Quang Hung and N. Dinh Dang

Structure of ^{32}P at high spins *(12 pages)* 054325
R. Chakrabarti, S. Mukhopadhyay, R. Bhattacharjee, S. S. Ghugre, A. K. Sinha, A. Dhal, L. Chaturvedi, M. Kumar Raju, N. Madhavan, R. P. Singh, S. Muralithar, B. K. Yogi, and U. Garg

Nuclear Reactions

Effect of neutron halos on excited states of nuclei *(7 pages)* 054601
A. A. Ogloblin, A. N. Danilov, T. L. Belyaeva, A. S. Demyanova, S. A. Goncharov, and W. Trzaska

Spin-dependent observables in surrogate reactions *(5 pages)* 054602
Satoshi Chiba, Osamu Iwamoto, and Yoshihiro Aritomo

Influence of transport variables on isospin transport ratios *(12 pages)* 054603
D. D. S. Coupland, W. G. Lynch, M. B. Tsang, P. Danielewicz, and Yingxun Zhang

Half-lives of proton emitters using relativistic mean field theory *(5 pages)* 054604
Bidhubhusan Sahu, S. K. Agarwalla, and S. K. Patra

Experimental study of fragmentation products in the reactions ^{112}Sn + ^{112}Sn and ^{124}Sn + ^{124}Sn at 1A GeV *(13 pages)* 054605
V. Föhr, A. Bacquias, E. Casarejos, T. Enqvist, A. R. Junghans, A. Kelić-Heil, T. Kurtukian, S. Lukić, D. Pérez-Loureiro, R. Pleskač, M. V. Ricciardi, K.-H. Schmidt, and J. Taïeb

Analysis of inclusive (d,xp) reactions on nuclei from ^{9}Be to ^{238}U at 100 MeV *(8 pages)* 054606
Tao Ye, Shintaro Hashimoto, Yukinobu Watanabe, Kazuyuki Ogata, and Masanobu Yahiro

Emission of clusters with $Z > 2$ from excited actinide nuclei *(11 pages)* 054607
Sh. A. Kalandarov, G. G. Adamian, N. V. Antonenko, W. Scheid, S. Heinz, V. Comas, S. Hofmann, J. Khuyagbaatar, D. Ackermann, J. Heredia, F. P. Heßberger, B. Kindler, B. Lommel, and R. Mann

Fusion hindrance of heavy ions: Role of the neck *(8 pages)* 054608
David Boilley, Hongliang Lü, Caiwan Shen, Yasuhisa Abe, and Bertrand G. Giraud

Formation of heavy-meson bound states by two-nucleon pick-up reactions *(7 pages)* 054609
N. Ikeno, J. Yamagata-Sekihara, H. Nagahiro, D. Jido, and S. Hirenzaki

Nuclear medium effects in $\nu(\bar{\nu})$-nucleus deep inelastic scattering *(13 pages)* 054610
H. Haider, I. Ruiz Simo, M. Sajjad Athar, and M. J. Vicente Vacas

Single-nucleon transfer reactions on ^{18}F *(12 pages)* 054611
A. S. Adekola, C. R. Brune, D. W. Bardayan, J. C. Blackmon, K. Y. Chae, C. Domizioli, U. Greife, Z. Heinen, M. J. Hornish, K. L. Jones, R. L. Kozub, R. J. Livesay, Z. Ma, T. N. Massey, B. Moazen, C. D. Nesaraja, S. D. Pain, J. F. Shriner Jr., N. D. Smith, M. S. Smith, J. S. Thomas, D. W. Visser, and A. V. Voinov

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.

PHYSICAL REVIEW C THIRD SERIES, VOLUME 84, NUMBER 5 NOVEMBER 2011

Medium-spin states in neutron-rich ^{83}As and ^{81}As *(10 pages)* 054305
M.-G. Porquet, A. Astier, D. Verney, Ts. Venkova, I. Deloncle, F. Azaiez, A. Buta, D. Curien, O. Dorvaux, G. Duchêne, B. J. P. Gall, F. Khalfallah, I. Piqueras, M. Rousseau, M. Meyer, N. Redon, O. Stézowski, and A. Bogachev

Dominant $T = 1$ channel proton-neutron interaction responsible for level structures of particle-hole nuclei around ^{100}Sn *(10 pages)* 054306
M. L. Liu, Y. H. Zhang, X. H. Zhou, J. J. He, X. G. Lei, Y. H. Qiang, L. He, and Z. G. Wang

Determination of the emission probability of the 21.54 keV γ ray in the decay of ^{151}Sm *(5 pages)* 054307
Hongtao Shen, Ming He, Xiang dong Ruan, Kejun Dong, and Shan Jiang

Candidate for the 2^+ excited Hoyle state at $E_x \sim 10$ MeV in ^{12}C *(6 pages)* 054308
M. Itoh, H. Akimune, M. Fujiwara, U. Garg, N. Hashimoto, T. Kawabata, K. Kawase, S. Kishi, T. Murakami, K. Nakanishi, Y. Nakatsugawa, B. K. Nayak, S. Okumura, H. Sakaguchi, H. Takeda, S. Terashima, M. Uchida, Y. Yasuda, M. Yosoi, and J. Zenihiro

Relativistic mean-field interaction with density-dependent meson-nucleon vertices based on microscopical calculations *(16 pages)* 054309
X. Roca-Maza, X. Viñas, M. Centelles, P. Ring, and P. Schuck

States built on the 10^+ isomers in ^{118,120,122,124}Sn *(9 pages)* 054310
N. Fotiades, M. Devlin, R. O. Nelson, J. A. Cizewski, R. Krücken, R. M. Clark, P. Fallon, I. Y. Lee, A. O. Macchiavelli, and W. Younes

β decay of ^{78}Sr *(15 pages)* 054311
A. B. Pérez-Cerdán, B. Rubio, W. Gelletly, A. Algora, J. Agramunt, K. Burkard, W. Hüller, E. Nácher, P. Sarriguren, L. Caballero, F. Molina, L. M. Fraile, E. Reillo, M. J. G. Borge, Ph. Dessagne, A. Jungclaus, and M.-D. Salsac

Behavior of $(sd)^2_{4^+}$ states coupled to p-shell cores *(4 pages)* 054312
H. T. Fortune

Properties of one-nucleon overlap functions for $A \geq 16$ double-closed-shell nuclei in the source-term approach *(12 pages)* 054313
N. K. Timofeyuk

Mixing of quasiparticle excitations and γ vibrations in transitional nuclei *(7 pages)* 054314
J. A. Sheikh, G. H. Bhat, Yan-Xin Liu, Fang-Qi Chen, and Yang Sun

Connecting scaling with short-range correlations *(11 pages)* 054315
D. Berardo, M. B. Barbaro, R. Cenni, T. W. Donnelly, and A. Molinari

Collective structural evolution in neutron-rich Yb, Hf, W, Os, and Pt isotopes *(11 pages)* 054316
K. Nomura, T. Otsuka, R. Rodríguez-Guzmán, L. M. Robledo, and P. Sarriguren

Reexamination of phenomenological two-photon exchange corrections to the proton form factors and $e^{\pm}p$ scattering *(10 pages)* 054317
I. A. Qattan, A. Alsaad, and J. Arrington

Triaxial shapes in the interacting vector boson model *(10 pages)* 054318
H. G. Ganev

Critical point symmetries in deformed odd-A nuclei *(7 pages)* 054319
Yu Zhang, Feng Pan, Yu-Xin Liu, and J. P. Draayer

Diverse collective excitations in ^{159}Er up to high spin *(20 pages)* 054320
M. Mustafa, J. Ollier, J. Simpson, M. A. Riley, E. S. Paul, X. Wang, A. Aguilar, M. P. Carpenter, I. G. Darby, D. J. Hartley, R. V. F. Janssens, F. G. Kondev, T. Lauritsen, P. J. Nolan, M. Petri, J. M. Rees, J. P. Revill, S. V. Rigby, C. Teal, J. Thomson, C. Unsworth, S. Zhu, B. G. Carlsson, H. L. Ma, T. Mufti, and I. Ragnarsson

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 84, NUMBER 5** **NOVEMBER 2011**

Measurements of the pair production cross section close to the threshold energy *(5 pages)* ..... 052501(R)
M. Jentschel, W. Urban, P. Mutti, P. Courtois, G. S. Simpson, and R. Frahm

ARTICLES

Nucleon-Nucleon Interaction, Few-Body Systems

Subleading contributions to the chiral three-nucleon force. II. Short-range terms and relativistic corrections *(12 pages)* 054001
V. Bernard, E. Epelbaum, H. Krebs, and Ulf-G. Meißner

Similarity renormalization group with novel generators *(8 pages)* 054002
W. Li, E. R. Anderson, and R. J. Furnstahl

Universality of short-range nucleon-nucleon correlations *(13 pages)* 054003
H. Feldmeier, W. Horiuchi, T. Neff, and Y. Suzuki

Constraining the neutron-neutron scattering length using the effective field theory without explicit pions *(12 pages)* 054004
Johannes Kirscher and Daniel R. Phillips

Triton with long-range chiral N^3LO three-nucleon forces *(10 pages)* 054005
R. Skibiński, J. Golak, K. Topolnicki, H. Witała, E. Epelbaum, W. Glöckle, H. Krebs, A. Nogga, and H. Kamada

Dynamical coupled-channels study of $K^*\bar{K}^*$ and $\omega\phi$ states in a chiral quark model *(6 pages)* 054006
W. L. Wang and Z. Y. Zhang

Two-photon exchange and elastic scattering of longitudinally polarized electrons on polarized deuterons *(6 pages)* 054007
Alexander P. Kobushkin, Yaroslav D. Krivenko-Emetov, Stanislav Dubnička, and Anna Z. Dubničkova

Two-nucleon electromagnetic current in chiral effective field theory: One-pion exchange and short-range contributions *(18 pages)* 054008
S. Kölling, E. Epelbaum, H. Krebs, and U.-G. Meißner

Nucleon-nucleon interactions from dispersion relations: Elastic partial waves *(8 pages)* 054009
M. Albaladejo and J. A. Oller

Benchmark calculation of n-^{3}H and p-^{3}He scattering *(13 pages)* 054010
M. Viviani, A. Deltuva, R. Lazauskas, J. Carbonell, A. C. Fonseca, A. Kievsky, L.E. Marcucci, and S. Rosati

Antiproton scattering off ^{3}He and ^{4}He nuclei at low and intermediate energies *(9 pages)* 054011
Yu. N. Uzikov, J. Haidenbauer, and B. A. Prmantayeva

Nuclear Structure

Two-neutron correlations in microscopic wave functions of ^{6}He, ^{8}He, and ^{12}C *(14 pages)* 054301
Yoshiko Kanada-En'yo, Hans Feldmeier, and Tadahiro Suhara

Global systematics of octupole excitations in even-even nuclei *(11 pages)* 054302
L. M. Robledo and G. F. Bertsch

In-beam γ-ray spectroscopy of the $N = 85$ isotones ^{159}W and ^{160}Re *(5 pages)* 054303
P. J. Sapple, R. D. Page, D. T. Joss, L. Bianco, T. Grahn, J. Pakarinen, J. Thomson, J. Simpson, D. O'Donnell, S. Ertürk, P. T. Greenlees, U. Jakobsson, P. M. Jones, R. Julin, S. Juutinen, S. Ketelhut, M. Leino, M. Nyman, P. Peura, A. Puurunen, P. Rahkila, P. Ruotsalainen, J. Sarén, C. Scholey, and J. Uusitalo

Energy density functional analysis of shape evolution in $N = 28$ isotones *(12 pages)* 054304
Z. P. Li, J. M. Yao, D. Vretenar, T. Nikšić, H. Chen, and J. Meng

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.

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
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 84, NUMBER 5 *CONTENTS* **NOVEMBER 2011**

RAPID COMMUNICATIONS

Low-energy monopole strength in exotic nickel isotopes *(4 pages)* ..... 051301(R)
E. Khan, N. Paar, and D. Vretenar

Lifetime measurements probing triple shape coexistence in ^{175}Au *(4 pages)* ..... 051302(R)
H. Watkins, D. T. Joss, T. Grahn, R. D. Page, R. J. Carroll, A. Dewald, P. T. Greenlees, M. Hackstein, R.-D. Herzberg, U. Jakobsson, P. M. Jones, R. Julin, S. Juutinen, S. Ketelhut, T. Kröll, R. Krücken, M. Labiche, M. Leino, N. Lumley, P. Maierbeck, M. Nyman, P. Nieminen, D. O'Donnell, J. Ollier, J. Pakarinen, P. Peura, T. Pissulla, P. Rahkila, J. P. Revill, W. Rother, P. Ruotsalainen, S. V. Rigby, J. Sarén, P. J. Sapple, M. Scheck, C. Scholey, J. Simpson, J. Sorri, J. Uusitalo, and M. Venhart

Nuclear mass predictions with a radial basis function approach *(4 pages)* ..... 051303(R)
Ning Wang and Min Liu

Charge radii and neutron correlations in helium halo nuclei *(5 pages)* ..... 051304(R)
G. Papadimitriou, A. T. Kruppa, N. Michel, W. Nazarewicz, M. Płoszajczak, and J. Rotureau

High-resolution (^{3}He,t) reaction on the double-β decaying nucleus ^{136}Xe *(5 pages)* ..... 051305(R)
P. Puppe, D. Frekers, T. Adachi, H. Akimune, N. Aoi, B. Bilgier, H. Ejiri, H. Fujita, Y. Fujita, M. Fujiwara, E. Ganioğlu, M. N. Harakeh, K. Hatanaka, M. Holl, H. C. Kozer, J. Lee, A. Lennarz, H. Matsubara, K. Miki, S. E. A. Orrigo, T. Suzuki, A. Tamii, and J. H. Thies

^{69}Kr β-delayed proton emission: A Trojan horse for studying states in proton-unbound ^{69}Br *(5 pages)* ..... 051306(R)
A. M. Rogers, J. Giovinazzo, C. J. Lister, B. Blank, G. Canchel, J. A. Clark, G. de France, S. Grévy, S. Gros, E. A. McCutchan, F. de Oliveira Santos, G. Savard, D. Seweryniak, I. Stefan, and J.-C. Thomas

Configuration mixing description of the nucleus ^{44}S *(5 pages)* ..... 051307(R)
Tomás R. Rodríguez and J. Luis Egido

Isobaric multiplet mass equation for $A = 7$ and 8 *(3 pages)* ..... 051308(R)
R. J. Charity, J. M. Elson, J. Manfredi, R. Shane, L. G. Sobotka, Z. Chajecki, D. Coupland, H. Iwasaki, M. Kilburn, J. Lee, W. G. Lynch, A. Sanetullaev, M. B. Tsang, J. Winkelbauer, M. Youngs, S. T. Marley, D. V. Shetty, A. H. Wuosmaa, T. K. Ghosh, and M. E. Howard

Isovector giant dipole resonance from the 3D time-dependent density functional theory for superfluid nuclei *(5 pages)* ..... 051309(R)
I. Stetcu, A. Bulgac, P. Magierski, and K. J. Roche

Absence of a maximum in the S factor at deep sub-barrier energies in the fusion reaction ^{40}Ca + ^{40}Ca *(4 pages)* ..... 051601(R)
Şerban Mişicu and Florin Carstoiu

APS physics™

Copyright 2011 by American Physical Society

0556-2813(201111)84:5;1-N

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.