

CONTENTS - *Continued*

PHYSICAL REVIEW C

THIRD SERIES, VOLUME 85, NUMBER 4

APRIL 2012

Erratum: $2 + 1$ dimensional hydrodynamics including bulk viscosity: A systematic study [Phys. Rev. C 85 , 024909 (2012)] (<i>1 page</i>)	049902(E)
Victor Roy and A. K. Chaudhuri	
Publisher's Note: Systematic study of (n, p) reaction cross sections from the reaction threshold to 20 MeV [Phys. Rev. C 85 , 024624 (2012)] (<i>1 page</i>)	049903(E)
B. Lalremruata, N. Otuka, G. J. Tambave, V. K. Mulik, B. J. Patil, S. D. Dhole, A. Saxena, S. Ganesan, and V. N. Bhoraskar	
Publisher's Note: Local multiplicity fluctuations as a signature of critical hadronization in heavy-ion collisions at TeV energies [Phys. Rev. C 85 , 044914 (2012)] (<i>1 page</i>)	049904(E)
Rudolph C. Hwa and C. B. Yang	

CONTENTS - *Continued*

PHYSICAL REVIEW C

THIRD SERIES, VOLUME 85, NUMBER 4

APRIL 2012

Nuclear Astrophysics

Formation of the rare-earth peak: Gaining insight into late-time r -process dynamics (13 pages)	045801
Matthew R. Mumpower, G. C. McLaughlin, and Rebecca Surman	
Experimental study of resonant states in ^{27}P via elastic scattering of $^{26}\text{Si}+p$ (9 pages)	045802
H. S. Jung, C. S. Lee, Y. K. Kwon, J. Y. Moon, J. H. Lee, C. C. Yun, S. Kubono, H. Yamaguchi, T. Hashimoto, D. Kahl, S. Hayakawa, Seonho Choi, M. J. Kim, Y. H. Kim, Y. K. Kim, J. S. Park, E. J. Kim, C.-B. Moon, T. Teranishi, Y. Wakabayashi, N. Iwasa, T. Yamada, Y. Togano, S. Kato, S. Cherubini, and G. G. Rapisarda	
Spin change of a proto-neutron star by the emission of neutrinos (7 pages)	045803
Chung-Yeol Ryu, Tomoyuki Maruyama, Toshitaka Kajino, Grant J. Mathews, and Myung-Ki Cheoun	
Measurement of elastic $^{12}\text{C} + \alpha$ scattering: Above the proton separation energy (5 pages)	045804
R. J. deBoer, A. Couture, R. Detwiler, J. Görres, P. Tischhauser, E. Uberseder, C. Ugalde, E. Stech, M. Wiescher, and R. E. Azuma	
Mass measurements near the r -process path using the Canadian Penning Trap mass spectrometer (14 pages)	045805
J. Van Schelt, D. Lascar, G. Savard, J. A. Clark, S. Caldwell, A. Chaudhuri, J. Fallis, J. P. Greene, A. F. Levand, G. Li, K. S. Sharma, M. G. Sternberg, T. Sun, and B. J. Zabransky	
Shell-model studies of the rp reaction $^{35}\text{Ar}(p,\gamma)^{36}\text{K}$ (6 pages)	045806
W. A. Richter and B. Alex Brown	
Determination of the $^3\text{He} + \alpha \rightarrow ^7\text{Be}$ asymptotic normalization coefficients, the nuclear vertex constants, and their application for the extrapolation of the $^3\text{He}(\alpha, \gamma)^7\text{Be}$ astrophysical S factors to the solar energy region (14 pages)	045807
Q. I. Tursunmahatov and R. Yarmukhamedov	
Nuclear symmetry energy and the r -mode instability of neutron stars (10 pages)	045808
Isaac Vidaña	
^{26}Si excited states via one-neutron removal from a ^{27}Si radioactive ion beam (5 pages)	045809
J. Chen, A. A. Chen, A. M. Amthor, D. Bazin, A. D. Becerril, A. Gade, D. Galaviz, T. Glasmacher, D. Kahl, G. Lorusso, M. Matos, C. V. Ouellet, J. Pereira, H. Schatz, K. Smith, B. Wales, D. Weisshaar, and R. G. T. Zegers	
New measurement of the astrophysically important $^{40}\text{Ca}(\alpha, \gamma)^{44}\text{Ti}$ reaction (8 pages)	045810
D. Robertson, J. Görres, P. Collon, M. Wiescher, and H.-W. Becker	

BRIEF REPORTS

New data strengthen the connection between short range correlations and the EMC effect (4 pages)	047301
O. Hen, E. Piasetzky, and L. B. Weinstein	
Experimental constraint on the ρ -meson form factors in the time-like region (4 pages)	048201
A. Dbeyssi, E. Tomasi-Gustafsson, G. I. Gakh, and C. Adamušćin	
Impact of new β -decay half-lives on r -process nucleosynthesis (4 pages)	048801
Nobuya Nishimura, Toshitaka Kajino, Grant J. Mathews, Shunji Nishimura, and Toshio Suzuki	

ERRATA

Publisher's Note: Observation of a narrow structure in $^1\text{H}(\gamma, K_S^0)X$ via interference with ϕ -meson production [Phys. Rev. C 85 , 035209 (2012)] (1 page)	049901(E)
M. J. Amarian, G. Gavalian, C. Nepali, M. V. Polyakov, Ya. Azimov, W. J. Briscoe, G. E. Dodge, C. E. Hyde, F. Klein, V. Kuznetsov, I. Strakovsky, and J. Zhang	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW C

THIRD SERIES, VOLUME 85, NUMBER 4

APRIL 2012

Charmonium mass in hot and dense hadronic matter (11 pages)	044917
Kenji Morita and Su Houng Lee	
Effects of equation of state on nuclear suppression and the initial entropy density of quark gluon plasma (5 pages)	044918
Surasree Mazumder and Jan-e Alam	
Suppression of elliptic-flow-induced correlations in an observable of possible local parity violation (4 pages)	044919
Adam Bzdak	
Gluon saturation in pA collisions at energies available at the CERN Large Hadron Collider: Predictions for hadron multiplicities (6 pages)	044920
Adrian Dumitru, Dmitri E. Kharzeev, Eugene M. Levin, and Yasushi Nara	
Hadronization and hadronic freeze-out in relativistic nuclear collisions (9 pages)	044921
Francesco Becattini, Marcus Bleicher, Thorsten Kollegger, Michael Mitrovski, Tim Schuster, and Reinhard Stock	
Azimuthal anisotropies for Au + Au collisions in the parton-hadron transient energy range (13 pages)	044922
V. P. Konchakovski, E. L. Bratkovskaya, W. Cassing, V. D. Toneev, S. A. Voloshin, and V. Voronyuk	
Hadronic Physics and QCD	
Effect of an imaginary part of the Schwinger-Dyson equation at finite temperature and density (9 pages)	045201
S. Sasagawa and H. Tanaka	
Examination of the H dibaryon within a chiral constituent quark model (9 pages)	045202
T. F. Caramés and A. Valcarce	
Final analysis of proton form factor ratio data at $Q^2 = 4.0, 4.8, \text{ and } 5.6 \text{ GeV}^2$ (26 pages)	045203
A. J. R. Puckett <i>et al.</i> (The Jefferson Lab Hall A Collaboration)	
Analysis of Σ_Q baryons in nuclear matter with QCD sum rules (5 pages)	045204
Zhi-Gang Wang	
Dynamical chiral symmetry breaking and the fermion–gauge-boson vertex (7 pages)	045205
A. Bashir, R. Bermudez, L. Chang, and C. D. Roberts	
Electroweak Interaction, Symmetries	
Measurement of the transverse polarization of electrons emitted in free neutron decay (20 pages)	045501
A. Kozela, G. Ban, A. Białek, K. Bodek, P. Gorel, K. Kirch, St. Kistryn, O. Naviliat-Cuncic, N. Severijns, E. Stephan, and J. Zejma (nTRV Collaboration)	
Radiative corrections to antineutrino-proton scattering at low energies (7 pages)	045502
U. Raha, F. Myhrer, and K. Kubodera	
Search for double- β decay of ^{130}Te to the first 0^+ excited state of ^{130}Xe with the CUORICINO experiment bolometer array (6 pages)	045503
E. Andreotti <i>et al.</i>	
Measurement of the double- β decay half-life of ^{136}Xe with the KamLAND-Zen experiment (6 pages)	045504
A. Gando, Y. Gando, H. Hanakago, H. Ikeda, K. Inoue, R. Kato, M. Koga, S. Matsuda, T. Mitsui, T. Nakada, K. Nakamura, A. Obata, A. Oki, Y. Ono, I. Shimizu, J. Shirai, A. Suzuki, Y. Takemoto, K. Tamae, K. Ueshima, H. Watanabe, B. D. Xu, S. Yamada, H. Yoshida, A. Kozlov, S. Yoshida, T. I. Banks, J. A. Detwiler, S. J. Freedman, B. K. Fujikawa, K. Han, T. O'Donnell, B. E. Berger, Y. Efremenko, H. J. Karwowski, D. M. Markoff, W. Tornow, S. Enomoto, and M. P. Decowski (KamLAND-Zen Collaboration)	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW C

THIRD SERIES, VOLUME 85, NUMBER 4

APRIL 2012

Isomeric cross sections of fast-neutron-induced reactions on ^{197}Au (10 pages)	044618
M. Avrigeanu, V. Avrigeanu, M. Diakaki, and R. Vlastou	
Exclusive giant dipole resonance measurement on the Jacobi transition in the $^{19}\text{F} + ^{27}\text{Al}$ system (10 pages)	044619
D. R. Chakrabarty, V. M. Datar, Suresh Kumar, G. Mishra, E. T. Mirgule, A. Mitra, P. C. Rout, V. Nanal, Deepak Pandit, S. Mukhopadhyay, and Srijit Bhattacharya	
Search for inverse fission of uranium (7 pages)	044620
R. Yanez, W. Loveland, J. Beckerman, M. Leonard, C. J. Gross, D. Shapira, J. F. Liang, Z. Kohley, and R. L. Varner	
Relativistic Nuclear Collisions	
Examination of scaling of Hanbury-Brown–Twiss radii with charged particle multiplicity (5 pages)	044901
Gunnar Gräf, Marcus Bleicher, and Qingfeng Li	
Projection method for boost-invariant and cylindrically symmetric dissipative hydrodynamics (6 pages)	044902
Wojciech Florkowski and Radoslaw Ryblewski	
Constraining the physics of jet quenching (20 pages)	044903
Thorsten Renk	
Constraining gluon shadowing using photoproduction in ultraperipheral pA and AA collisions (13 pages)	044904
Adeola Adeluyi and C. A. Bertulani	
Energy and centrality dependence of higher order moments of net-proton distributions in relativistic heavy ion collisions (6 pages)	044905
X. Wang and C. B. Yang	
Event-by-event generation of electromagnetic fields in heavy-ion collisions (8 pages)	044907
Wei-Tian Deng and Xu-Guang Huang	
Viscous hydrodynamics and relativistic heavy ion collisions (10 pages)	044908
Joshua Vredevoogd and Scott Pratt	
Bulk viscosity, particle spectra, and flow in heavy-ion collisions (19 pages)	044909
Kevin Dusling and Thomas Schäfer	
Transverse-momentum fluctuations in relativistic heavy-ion collisions from event-by-event viscous hydrodynamics (10 pages)	044910
Piotr Bożek and Wojciech Broniowski	
Ideal hydrodynamics for bulk and multistrange hadrons in $\sqrt{s_{NN}} = 200A$ GeV Au-Au collisions (9 pages)	044911
Min He, Rainer J. Fries, and Ralf Rapp	
Stability of transport models under changes of resonance parameters: A study with the ultrarelativistic quantum molecular dynamics model (6 pages)	044912
Jochen Gerhard, Bjørn Bäuchle, Volker Lindenstruth, and Marcus Bleicher	
Antideuteron and deuteron production in midcentral Pb + Pb collisions at 158A GeV (10 pages)	044913
T. Anticic <i>et al.</i> (NA49 Collaboration)	
Local multiplicity fluctuations as a signature of critical hadronization in heavy-ion collisions at TeV energies (11 pages)	044914
Rudolph C. Hwa and C. B. Yang	
Energy loss in a fluctuating hydrodynamical background (9 pages)	044915
Thorsten Renk, Hannu Holopainen, Jussi Auvinen, and Kari Eskola	
Remarks on the possible importance of jet v_3 and multiple jet production for the interpretation of recent jet quenching measurements at the CERN Large Hadron Collider (5 pages)	044916
C. Loizides and J. Putschke	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW C

THIRD SERIES, VOLUME 85, NUMBER 4

APRIL 2012

Nuclear Reactions

Partition between the fission fragments of the excitation energy and of the neutron multiplicity at scission in low-energy fission (6 pages)	044601
N. Carjan, F.-J. Hamsch, M. Rizea, and O. Serot	
Influence of long-range effects on low-energy cross sections of He and HeX: The lithium problem (6 pages)	044602
H. Dapo, I. Boztosun, G. Kocak, and A. B. Balantekin	
Examining barrier distributions and, in extension, energy derivative of probabilities for surrogate experiments (11 pages)	044603
P. Romain, H. Duarte, and B. Morillon	
Comparing nonperturbative models of the breakup of neutron-halo nuclei (7 pages)	044604
P. Capel, H. Esbensen, and F. M. Nunes	
Cross-section measurement of $^9\text{Be}(\gamma, n)^8\text{Be}$ and implications for $\alpha + \alpha + n \rightarrow ^9\text{Be}$ in the r process (11 pages)	044605
C. W. Arnold, T. B. Clegg, C. Iliadis, H. J. Karwowski, G. C. Rich, J. R. Tompkins, and C. R. Howell	
Microscopic study of Ca + Ca fusion (10 pages)	044606
R. Keser, A. S. Umar, and V. E. Oberacker	
Global optical potential for nucleus-nucleus systems from 50 MeV/u to 400 MeV/u (11 pages)	044607
T. Furumoto, W. Horiuchi, M. Takashina, Y. Yamamoto, and Y. Sakuragi	
New Geiger-Nuttall law for α decay of heavy nuclei (6 pages)	044608
Yuejiao Ren and Zhongzhou Ren	
Time delays in heavy-ion-induced fission of medium- Z nuclei, measured by crystal blocking (13 pages)	044609
J. U. Andersen, J. Chevallier, J. S. Forster, S. A. Karamian, C. R. Vane, J. R. Beene, C. J. Gross, H. F. Krause, J. F. Liang, D. Shapira, and A. Uguzzoni	
Search for double- β decay processes in ^{106}Cd with the help of a $^{106}\text{CdWO}_4$ crystal scintillator (12 pages)	044610
P. Belli, R. Bernabei, R. S. Boiko, V. B. Brudanin, F. Cappella, V. Caracciolo, R. Cerulli, D. M. Chernyak, F. A. Danevich, S. d'Angelo, E. N. Galashov, A. Incicchitti, V. V. Kobychiev, M. Laubenstein, V. M. Mokina, D. V. Poda, R. B. Podvianuk, O. G. Polischuk, V. N. Shlegel, Yu. G. Stenin, J. Suhonen, V. I. Tretyak, and Ya. V. Vasiliev	
Target-state dependence of cross sections for reactions on statically deformed nuclei (14 pages)	044611
F. S. Dietrich, I. J. Thompson, and T. Kawano	
Cross sections of electron excitation of atomic nuclei in plasma (5 pages)	044612
E. V. Tkalya, E. V. Akhrameev, R. V. Arutyunayn, L. A. Bol'shov, and P. S. Kondratenko	
^{243}Am neutron-induced fission cross section in the fast neutron energy range (11 pages)	044613
G. Kessedjian, G. Barreau, M. Aiche, B. Jurado, A. Bidaud, S. Czajkowski, D. Dassié, B. Haas, L. Mathieu, L. Tassan-Got, J. N. Wilson, F.-J. Hamsch, S. Oberstedt, I. AlMahamid, J. Floyd, W. Lukens, and D. Shuh	
Dynamical approach to heavy-ion induced fission using actinide target nuclei at energies around the Coulomb barrier (15 pages)	044614
Y. Aritomo, K. Hagino, K. Nishio, and S. Chiba	
Resonance neutron-capture cross sections of stable magnesium isotopes and their astrophysical implications (15 pages)	044615
C. Massimi <i>et al.</i> (n-TOF Collaboration)	
Measurement and resonance analysis of the ^{237}Np neutron capture cross section (15 pages)	044616
C. Guerrero <i>et al.</i> (n-TOF Collaboration)	
Elastic scattering of ^6He based on a cluster description (13 pages)	044617
S. P. Weppner and Ch. Elster	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW C

THIRD SERIES, VOLUME 85, NUMBER 4

APRIL 2012

One-neutron removal reactions on Al isotopes around the $N = 20$ shell closure (10 pages)	044312
C. Nociforo, A. Prochazka, R. Kanungo, T. Aumann, D. Boutin, D. Cortina-Gil, B. Davids, M. Diakaki, F. Farinon, H. Geissel, R. Gernhäuser, R. Janik, B. Jonson, B. Kindler, R. Knöbel, R. Krücken, N. Kurz, M. Lantz, H. Lenske, Yu. A. Litvinov, B. Lommel, K. Mahata, P. Maierbeck, A. Musumarra, T. Nilsson, C. Perro, C. Scheidenberger, B. Sitar, P. Strmen, B. Sun, I. Szarka, I. Tanihata, H. Weick, and M. Winkler	
Hybrid potential analysis of exotic clustering in heavy nuclei (4 pages)	044313
T. T. Ibrahim, S. M. Perez, S. M. Wyngaardt, B. Buck, and A. C. Merchant	
Near-yrast structure of odd- A , neutron-rich Pr isotopes (12 pages)	044314
T. Malkiewicz, G. S. Simpson, W. Urban, J. Genevey, U. Köster, T. Materna, J. A. Pinston, M. Ramdhane, T. Rząca-Urban, G. Thiamova, A. G. Smith, I. Ahmad, and J. P. Greene	
Low-lying spectroscopy of a few even-even silicon isotopes investigated with the multiparticle-multihole Gogny energy density functional (16 pages)	044315
N. Pillet, V. G. Zelevinsky, M. Dupuis, J.-F. Berger, and J. M. Daugas	
Magnetic rotation and quasicollective structures in ^{58}Fe : Influence of the $\nu g_{9/2}$ orbital (23 pages)	044316
D. Steppenbeck, R. V. F. Janssens, S. J. Freeman, M. P. Carpenter, P. Chowdhury, A. N. Deacon, M. Honma, H. Jin, T. Lauritsen, C. J. Lister, J. Meng, J. Peng, D. Seweryniak, J. F. Smith, Y. Sun, S. L. Tabor, B. J. Varley, Y.-C. Yang, S. Q. Zhang, P. W. Zhao, and S. Zhu	
Low-energy isovector and isoscalar dipole response in neutron-rich nuclei (8 pages)	044317
D. Vretenar, Y. F. Niu, N. Paar, and J. Meng	
Nuclear equation of state and incompressibility in a model with correlations from giant monopole vibrations (5 pages)	044318
Aram Z. Mekjian and Larry Zamick	
Neutron capture cross sections of $^{184,189,190,192}\text{Os}$ and the decays of ^{185}Os , $^{190}\text{Os}^m$, ^{191}Os , and ^{193}Os (13 pages) . . .	044319
K. S. Krane	
Breaking of $N = 8$ magicity in ^{13}Be (9 pages)	044320
Yoshiko Kanada-En'yo	
Thermodynamical properties of small superconductors with a fixed number of particles (4 pages)	044321
Danilo Gambacurta and Denis Lacroix	
Structure of the Sr-Zr isotopes near and at the magic $N = 50$ shell from g -factor and lifetime measurements in $^{88}_{40}\text{Zr}$ and $^{84,86,88}_{38}\text{Sr}$ (9 pages)	044322
G. J. Kumbartzki, K.-H. Speidel, N. Benczer-Koller, D. A. Torres, Y. Y. Sharon, L. Zamick, S. J. Q. Robinson, P. Maier-Komor, T. Ahn, V. Anagnostatou, Ch. Bernards, M. Elvers, P. Goddard, A. Heinz, G. Ilie, D. Radeck, D. Savran, V. Werner, and E. Williams	
Second-order equation of state with the full Skyrme interaction: Toward new effective interactions for beyond-mean-field models (14 pages)	044323
K. Moghrabi, M. Grasso, X. Roca-Maza, and G. Colò	
Effect of nuclear deformation on α -decay half-lives (7 pages)	044324
A. Coban, O. Bayrak, A. Soylu, and I. Boztosun	
New states in ^{18}Na and ^{19}Mg observed in the two-proton decay of ^{19}Mg (6 pages)	044325
I. Mukha, L. Grigorenko, L. Acosta, M. A. G. Alvarez, E. Casarejos, A. Chatillon, D. Cortina-Gil, J. M. Espino, A. Fomichev, J. E. García-Ramos, H. Geissel, J. Gómez-Camacho, J. Hofmann, O. Kiselev, A. Korshennikov, N. Kurz, Yu. A. Litvinov, I. Martel, C. Nociforo, W. Ott, M. Pfützner, C. Rodríguez-Tajes, E. Roeckl, C. Scheidenberger, M. Stanoiu, K. Sümmerner, H. Weick, and P. J. Woods	

(Continued)

ARTICLES

Nucleon-Nucleon Interaction, Few-Body Systems

- Quark mass dependence of nucleon-nucleon S -wave scattering lengths (8 pages) 044001
Joan Soto and Jaume Tarrús
- Nucleon resonances with hidden charm in coupled-channels models (7 pages) 044002
Jia-Jun Wu, T.-S. H. Lee, and B. S. Zou
- Similarity renormalization group and many-body effects in multiparticle systems (9 pages) 044003
Kristina D. Launey, Tomáš Dytrych, and Jerry P. Draayer

Nuclear Structure

- γ spectroscopy of calcium nuclei around doubly magic ^{48}Ca using heavy-ion transfer reactions (21 pages) 044301
D. Montanari *et al.*
- Dipole response of ^{238}U to polarized photons below the neutron separation energy (12 pages) 044302
S. L. Hammond, A. S. Adekola, C. T. Angell, H. J. Karwowski, E. Kwan, G. Rusev, A. P. Tonchev, W. Tornow, C. R. Howell, and J. H. Kelley
- High-spin structure of ^{104}Pd (13 pages) 044303
D. Sohler, I. Kuti, J. Timár, P. Joshi, J. Molnár, E. S. Paul, K. Starosta, R. Wadsworth, A. Algora, P. Bednarczyk, D. Curien, Zs. Dombrádi, G. Duchene, D. B. Fossan, J. Gál, A. Gizon, J. Gizon, D. G. Jenkins, K. Juhász, G. Kalinka, T. Koike, A. Krasznahorkay, B. M. Nyakó, P. M. Raddon, G. Rainovski, J. N. Scheurer, A. J. Simons, C. Vaman, A. R. Wilkinson, and L. Zolnai
- Properties of the lowest $1/2^+$, $T = 3/2$ states in $A = 11$ nuclei (4 pages) 044304
H. T. Fortune
- Multi-intruder structures in ^{34}P (10 pages) 044305
P. C. Bender, S. L. Tabor, Vandana Tripathi, C. R. Hoffman, L. Hamilton, A. Volya, R. M. Clark, P. Fallon, A. O. Macchiavelli, S. Paschalis, M. Petri, M. P. Carpenter, R. V. F. Janssens, T. Lauritsen, E. A. McCutchan, D. Seweryniak, S. Zhu, C. J. Chiara, X. Chen, W. Reviol, D. G. Sarantites, and Y. Toh
- High-spin states in ^{127}I (14 pages) 044306
B. Ding (丁兵), Y. H. Zhang (张玉虎), X. H. Zhou (周小红), G. X. Dong (董国香), F. R. Xu (许甫荣), M. L. Liu (柳敏良), G. S. Li (李广顺), N. T. Zhang (张宁涛), H. X. Wang (王海霞), H. B. Zhou (周厚兵), Y. J. Ma (马英君), Y. Sasakiz, K. Yamada, H. Ohshima, S. Yokose, M. Ishizuka, T. Komatsubara, and K. Furuno
- Proton pygmy dipole resonances in $^{17,18}\text{Ne}$: Collective versus noncollective excitations (6 pages) 044307
Hai-Liang Ma, Bao-Guo Dong, Yu-Liang Yan, Huan-Qiao Zhang, and Xi-Zhen Zhang
- Formations of loose clusters in an unbound region of ^{12}Be (12 pages) 044308
Makoto Ito
- $B(E2)$ values in ^{12}Be and core excitation (4 pages) 044309
H. T. Fortune
- Calculation of nuclear matrix elements in neutrinoless double electron capture (6 pages) 044310
Tomás R. Rodríguez and Gabriel Martínez-Pinedo
- Highly charged ions in Penning traps: A new tool for resolving low-lying isomeric states (7 pages) 044311
A. T. Gallant, M. Brodeur, T. Brunner, U. Chowdhury, S. Ettenauer, V. V. Simon, E. Mané, M. C. Simon, C. Andreoiu, P. Delheij, G. Gwinner, M. R. Pearson, R. Ringle, and J. Dilling

PHYSICAL REVIEW CTM

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 1N01
2 Huntington Quadrangle
Melville, NY 11747-4502

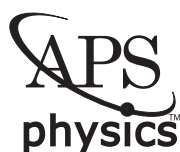
THIRD SERIES, VOLUME 85, NUMBER 4

CONTENTS

APRIL 2012

RAPID COMMUNICATIONS

- In-beam spectroscopy with intense ion beams: Evidence for a rotational structure in ^{246}Fm (6 pages) 041301(R)
J. Piot, B. J.-P. Gall, O. Dorvaux, P. T. Greenlees, N. Rowley, L. L. Andersson, D. M. Cox, F. Dechery,
T. Grahn, K. Hauschild, G. Henning, A. Herzan, R.-D. Herzberg, F. P. Heßberger, U. Jakobsson, P. Jones,
R. Julin, S. Juutinen, S. Ketelhut, T.-L. Khoo, M. Leino, J. Ljungvall, A. Lopez-Martens, P. Nieminen,
J. Pakarinen, P. Papadakis, E. Parr, P. Peura, P. Rahkila, S. Rinta-Antila, J. Rubert, P. Ruotsalainen,
M. Sandzelius, J. Sarén, C. Scholey, D. Seweryniak, J. Sorri, B. Sulignano, and J. Uusitalo
- Electric dipole polarizability and the neutron skin (5 pages) 041302(R)
J. Piekarewicz, B. K. Agrawal, G. Colò, W. Nazarewicz, N. Paar, P.-G. Reinhard,
X. Roca-Maza, and D. Vretenar
- Observation of mutually enhanced collectivity in self-conjugate $^{76}_{38}\text{Sr}_{38}$ (4 pages) 041303(R)
A. Lemasson, H. Iwasaki, C. Morse, D. Bazin, T. Baugher, J. S. Berryman, A. Dewald, C. Fransen,
A. Gade, S. McDaniel, A. Nichols, A. Ratkiewicz, S. Stroberg, P. Voss, R. Wadsworth, D. Weisshaar,
K. Wimmer, and R. Winkler
- Pygmy dipole resonance in ^{208}Pb (5 pages) 041304(R)
I. Poltoratska, P. von Neumann-Cosel, A. Tamii, T. Adachi, C. A. Bertulani, J. Carter, M. Dozono,
H. Fujita, K. Fujita, Y. Fujita, K. Hatanaka, M. Itoh, T. Kawabata, Y. Kalmykov, A. M. Krumbholz,
E. Litvinova, H. Matsubara, K. Nakanishi, R. Neveling, H. Okamura, H. J. Ong, B. Özel-Tashenov,
V. Yu. Ponomarev, A. Richter, B. Rubio, H. Sakaguchi, Y. Sakemi, Y. Sasamoto, Y. Shimbara,
Y. Shimizu, F. D. Smit, T. Suzuki, Y. Tameshige, J. Wambach, M. Yosoi, and J. Zenihiro
- Theoretical study of the synthesis of superheavy nuclei with $Z = 119$ and 120 in heavy-ion reactions with
trans-uranium targets (5 pages) 041601(R)
Nan Wang(王楠), En-Guang Zhao(赵恩广), Werner Scheid, and Shan-Gui Zhou(周善贵)
- Symmetry breaking and fluctuations within stochastic mean-field dynamics: Importance of initial quantum
fluctuations (4 pages) 041602(R)
Denis Lacroix, Sakir Ayik, and Bulent Yilmaz
- Effects of hadronic potentials on elliptic flows in relativistic heavy ion collisions (4 pages) 041901(R)
Jun Xu, Lie-Wen Chen, Che Ming Ko, and Zi-Wei Lin
- Model-independent determination of the parity of Ξ hyperons (4 pages) 042201(R)
K. Nakayama, Yongseok Oh, and H. Haberzettl



Copyright 2012 by American Physical Society



0556-2813(201204)85:4;1-C

(Continued)