PHYSICAL REVIEW C

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

PERIODICALS
Postmaster send address changes to:
American Institute of Physics
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 66, NUMBER 2 ***CONTENTS*** **AUGUST 2002**

RAPID COMMUNICATIONS

Triton binding energy calculated from the SU_6 quark-model nucleon-nucleon interaction *(5 pages)* ..... 021001(R)
Y. Fujiwara, K. Miyagawa, M. Kohno, Y. Suzuki, and H. Nemura

Excitation modes of ^{11}Li at $E_x \sim 1.3$ MeV from proton collisions *(4 pages)* ..... 021002(R)
R. Crespo, I. J. Thompson, and A. A. Korsheninnikov

Evidence for $^{16}O + ^{16}O$ cluster bands in ^{32}S *(4 pages)* ..... 021301(R)
Shigeo Ohkubo and Kotoe Yamashita

Bands and Coulomb effects in ^{50}Cr *(5 pages)* ..... 021302(R)
F. Brandolini, J. Sanchez-Solano, S. M. Lenzi, N. H. Medina, A. Poves, C. A. Ur, D. Bazzacco, G. De Angelis, M. De Poli, E. Farnea, A. Gadea, D. R. Napoli, and C. Rossi-Alvarez

Microscopic nuclear structure based upon a chiral NN potential *(3 pages)* ..... 021303(R)
L. Coraggio, A. Covello, A. Gargano, N. Itaco, T. T. S. Kuo, D. R. Entem, and R. Machleidt

Test of two-level crossing at the $N = 90$ spherical-deformed critical point *(4 pages)* ..... 021304(R)
N. V. Zamfir, P. von Brentano, R. F. Casten, and J. Jolie

Observation of excited states in the near-drip-line nucleus ^{125}Pr *(5 pages)* ..... 021305(R)
A. N. Wilson, D. R. LaFosse, J. F. Smith, C. J. Chiara, A. J. Boston, M. P. Carpenter, H. J. Chantler, R. Charity, P. T. W. Choy, M. Devlin, A. M. Fletcher, D. B. Fossan, R. V. F. Janssens, D. G. Jenkins, N. S. Kelsall, F. G. Kondev, T. Koike, E. S. Paul, D. G. Sarantites, D. Seweryniak, K. Starosta, and R. Wadsworth

Isotopic composition of fragments in multifragmentation of very large nuclear systems: Effects of the chemical equilibrium *(5 pages)* ..... 021601(R)
P. M. Milazzo, A. S. Botvina, G. Vannini, M. Bruno, N. Colonna, M. D'Agostino, F. Gramegna, I. Iori, G. V. Margagliotti, P. F. Mastinu, A. Moroni, and R. Rui

Centrality and momentum-selected elliptic flow: Tighter constraints for the nuclear equation of state *(5 pages)* ..... 021901(R)
P. Chung, N. N. Ajitanand, J. M. Alexander, J. Ames, M. Anderson, D. Best, F. P. Brady, T. Case, W. Caskey, D. Cebra, J. L. Chance, B. Cole, K. Crowe, A. C. Das, J. E. Draper, M. L. Gilkes, S. Gushue, M. Heffner, A. S. Hirsch, E. L. Hjort, W. Holzmann, L. Huo, M. Issah, M. Justice, M. Kaplan, D. Keane, J. C. Kintner, J. Klay, D. Krofcheck, R. A. Lacey, J. Lauret, M. A. Lisa, H. Liu, Y. M. Liu, J. Milan, R. McGrath, Z. Milosevich, G. Odyniec, D. L. Olson, S. Panitkin, N. T. Porile, G. Rai, H. G. Ritter, J. L. Romero, R. Scharenberg, L. Schroeder, B. Srivastava, N. T. B. Stone, T. J. M. Symons, J. Whitfield, T. Wienold, R. Witt, L. Wood, and W. N. Zhang (E895 Collaboration), and P. Danielewicz

Nuclear absorption and J/ψ suppression in Pb+Pb collisions *(4 pages)* ..... 021902(R)
A. K. Chaudhuri

Simultaneous softening of σ and ρ mesons associated with chiral restoration *(5 pages)* ..... 022201(R)
K. Yokokawa, T. Hatsuda, A. Hayashigaki, and T. Kunihiro

Copyright 2002 by The American Physical Society

(Continued)

0556-2813(200208)66:2;1-8

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 66, NUMBER 2** **AUGUST 2002**

Coherent ϕ and ω meson photoproduction from deuteron and nondiffractive channels *(5 pages)* . . . . . 022202(R)
A. I. Titov, M. Fujiwara, and T. S.-H. Lee
Observation of deeply bound pionic states of xenon produced in $Xe_{nat}(d,{}^3He)Xe_{\pi\text{-bound}}$ reactions *(2 pages)* . . . . . 022203(R)
M. Andersson, Chr. Bargholtz, B. Chernyshev, L. Gerén, M. Gornov, V. Grebenev, Y. Gurov, B. Höistad, V. Sandukovsky, R. Shafigullin, P.-E. Tegnér, and K. Wilhelmsen Rolander
Search for a resonance in the $^{14}N(p,\gamma)^{15}O$ reaction at $E_p=127$ keV *(3 pages)* . . . . . 022801(R)
R. C. Runkle, A. E. Champagne, C. Fox, C. Iliadis, J. Pollanen, A. Stephan, and C. Westerfeldt

ARTICLES

Nucleon-Nucleon Interaction, Few-Body Systems

Neutron structure function and inclusive deep inelastic scattering from ^3H and ^3He at large Bjorken x *(22 pages)* 024001
M. M. Sargsian, S. Simula, and M. I. Strikman
η-$3N$ problem with separable interactions *(11 pages)* 024002
A. Fix and H. Arenhövel
Three-nucleon force effects in nucleon induced deuteron breakup. I. Predictions of current models *(15 pages)* 024003
J. Kuroś-Żołnierczuk, H. Witała, J. Golak, H. Kamada, A. Nogga, R. Skibiński, and W. Glöckle
Three-nucleon force effects in nucleon induced deuteron breakup. II. Comparison to data *(11 pages)* 024004
J. Kuroś-Żołnierczuk, H. Witała, J. Golak, H. Kamada, A. Nogga, R. Skibiński, and W. Glöckle
Microscopic $NN\rightarrow NN^*(1440)$ transition potential: Determination of $\pi NN^*(1440)$ and $\sigma NN^*(1440)$ coupling constants *(9 pages)* 024005
B. Juliá-Díaz, A. Valcarce, P. González, and F. Fernández
Phenomenological Λ-nuclear interactions *(9 pages)* 024006
Rita Sinha, Q. N. Usmani, and B. M. Taib
Four-body cluster structure of $A=7-10$ double-Λ hypernuclei *(13 pages)* 024007
E. Hiyama, M. Kamimura, T. Motoba, T. Yamada, and Y. Yamamoto
Theoretical predictions for extraction of G_E^n from semi-inclusive electron scattering on polarized ^3He based on various nucleon-nucleon interactions *(3 pages)* 024008
J. Golak, W. Glöckle, H. Kamada, H. Witała, R. Skibiński, and A. Nogga

Nuclear Structure

Deformed shell model for $T=0$ and $T=1$ bands in ^{62}Ga and ^{66}As *(6 pages)* 024301
R. Sahu and V. K. B. Kota
High-j proton and neutron alignments in γ-soft ^{101}Ru *(13 pages)* 024302
A. D. Yamamoto, P. H. Regan, C. W. Beausang, F. R. Xu, M. A. Caprio, R. F. Casten, G. Gürdal, A. A. Hecht, C. Hutter, R. Krücken, S. D. Langdown, D. Meyer, J. J. Ressler, and N. V. Zamfir
Applications of semiempirical shell model masses based on a proton magic number $Z=126$ to heavy and superheavy nuclei *(5 pages)* 024303
S. Liran, A. Marinov, and N. Zeldes
^{48}V: An experimental and theoretical paradigm in the middle of the $1f_{7/2}$ shell *(12 pages)* 024304
F. Brandolini, N. Mărginean, S. Hankonen, N. H. Medina, R. V. Ribas, J. Sanchez-Solano, S. M. Lenzi, S. Lunardi, D. R. Napoli, A. Poves, C. A. Ur, D. Bazzacco, G. de Angelis, M. De Poli, E. Farnea, A. Gadea, T. Martínez, and C. Rossi-Alvarez
Structure of excited states of ^{11}Be studied with antisymmetrized molecular dynamics *(12 pages)* 024305
Y. Kanada-En'yo and H. Horiuchi
Relativistic Hartree-Bogoliubov model with density-dependent meson-nucleon couplings *(15 pages)* 024306
T. Nikšić, D. Vretenar, P. Finelli, and P. Ring

(Continued)

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 66, NUMBER 2** **AUGUST 2002**

Configuration dependent shapes in the ^{177}Re nucleus *(8 pages)* 024307
S. K. Chamoli, P. Joshi, A. Kumar, R. P. Singh, S. Muralithar, R. K. Bhowmik, Z. Naik, C. R. Praharaj, and I. M. Govil

First observation of ^{109}Te β^+ and electron capture decay to levels of ^{109}Sb *(7 pages)* 024308
J. J. Ressler, W. B. Walters, C. N. Davids, D. J. Dean, A. Heinz, M. Hjorth-Jensen, D. Seweryniak, and J. Shergur

Continuum quasiparticle random phase approximation and the time-dependent Hartree-Fock-Bogoliubov approach *(9 pages)* 024309
E. Khan, N. Sandulescu, M. Grasso, and Nguyen Van Giai

Magnetic rotation in ^{82}Rb and ^{84}Rb *(14 pages)* 024310
R. Schwengner, G. Rainovski, H. Schnare, A. Wagner, F. Dönau, A. Jungclaus, M. Hausmann, O. Iordanov, K. P. Lieb, D. R. Napoli, G. de Angelis, M. Axiotis, N. Marginean, F. Brandolini, and C. Rossi Alvarez

Exploration of resonant continuum and giant resonance in the relativistic approach *(5 pages)* 024311
Li-gang Cao and Zhong-yu Ma

Search for experimental evidence supporting the multiphonon description of excited states in ^{152}Sm *(8 pages)* 024312
D. G. Burke

Two-proton spectroscopy of low-lying states in ^{17}Ne *(12 pages)* 024313
M. J. Chromik, P. G. Thirolf, M. Thoennessen, B. A. Brown, T. Davinson, D. Gassmann, P. Heckman, J. Prisciandaro, P. Reiter, E. Tryggestad, and P. J. Woods

Ab initio shell model for $A=10$ nuclei *(14 pages)* 024314
E. Caurier, P. Navrátil, W. E. Ormand, and J. P. Vary

Evidence for a molecular rotational band in the $^{14}C+\alpha$ decay of ^{18}O and the α decay of ^{22}Ne *(10 pages)* 024315
N. Curtis, D. D. Caussyn, C. Chandler, M. W. Cooper, N. R. Fletcher, R. W. Laird, and J. Pavan

Lifetimes in the yrast and an octupole-vibrational superdeformed band in ^{196}Pb *(6 pages)* 024316
D. Roßbach, A. Görgen, H. Hübel, E. Mergel, G. Schönwaßer, F. Azaiez, C. Bourgeois, F. Hannachi, A. Korichi, A. Lopez-Martens, A. Astier, N. Buforn, N. Redon, O. Stezowski, D. Bazzacco, T. Kröll, C. Rossi-Alvarez, K. Hauschild, W. Korten, R. Lucas, H. J. Maier, P. Reiter, P. G. Thirolf, and A. N. Wilson

Search for the Jacobi shape transition in rapidly rotating nuclei *(15 pages)* 024317
D. Ward, R. M. Diamond, W. J. Swiatecki, R. M. Clark, M. Cromaz, M. A. Deleplanque, P. Fallon, A. Goergen, G. J. Lane, I. Y. Lee, A. O. Macchiavelli, W. Myers, F. S. Stephens, C. E. Svensson, and K. Vetter

Effective Lagrangian approach to structure of selected nuclei far from stability *(11 pages)* 024318
M. A. Huertas

Random interactions, isospin, and the ground states of odd-A and odd-odd nuclei *(11 pages)* 024319
Mihai Horoi, Alexander Volya, and Vladimir Zelevinsky

Microscopic mechanism of identical superdeformed bands in ^{192,193,194}Hg *(5 pages)* 024320
S. X. Liu, J. Y. Zeng, and E. G. Zhao

Effective Dirac Brueckner-Hartree-Fock method for asymmetric nuclear matter and finite nuclei *(6 pages)* . . . 024321
Zhong-yu Ma and Ling Liu

Model for pairing phase transition in atomic nuclei *(11 pages)* 024322
A. Schiller, M. Guttormsen, M. Hjorth-Jensen, J. Rekstad, and S. Siem

Structure of low-lying states in ^{128}Ba from γ-γ angular correlations and polarization measurements *(7 pages)* 024323
A. Wolf, N. V. Zamfir, M. A. Caprio, Z. Berant, D. S. Brenner, N. Pietralla, R. L. Gill, R. F. Casten, C. W. Beausang, R. Kruecken, K. E. Zyromski, C. J. Barton, J. R. Cooper, A. A. Hecht, H. Newmann, J. R. Novak, and J. Cederkall

(Continued)

PHYSICAL REVIEW C THIRD SERIES, VOLUME 66, NUMBER 2 AUGUST 2002

Novel methods for determining effective interactions for the nuclear shell model *(6 pages)* 024324
H. Mueller, J. Piekarewicz, and J. R. Shepard

Transition to the ''island of inversion'': Fast-beam γ-ray spectroscopy of ^{28,30}Na *(5 pages)* 024325
B. V. Pritychenko, T. Glasmacher, P. D. Cottle, R. W. Ibbotson, K. W. Kemper, K. L. Miller, L. A. Riley, and H. Scheit

Hartree-Fock mass formulas and extrapolation to new mass data *(9 pages)* 024326
S. Goriely, M. Samyn, P.-H. Heenen, J. M. Pearson, and F. Tondeur

Isospin inversion, n-p interactions, and quartet structures in $N=Z$ nuclei *(5 pages)* 024327
J. Jänecke, T. W. O'Donnell, and V. I. Goldanskii

Nuclear Reactions

Investigation of the high momentum components of the nuclear wave function using hard quasielastic $A(p,2p)X$ reactions *(14 pages)* 024601
I. Yaron, L. Frankfurt, E. Piasetzky, M. Sargsian, and M. Strikman

Extension of the full-folding optical model for nucleon-nucleus scattering with applications up to 1.5 GeV *(14 pages)* 024602
H. F. Arellano and H. V. von Geramb

Fusion from an excited state *(8 pages)* 024603
Sachie Kimura and Noboru Takigawa

Simple functional form for proton-nucleus total reaction cross sections *(4 pages)* 024604
K. Amos and P. K. Deb

Validity of the semiclassical approximation for the breakup of weakly bound nuclei *(5 pages)* 024605
H. D. Marta, L. F. Canto, R. Donangelo, and P. Lotti

Light and heavy transfer products in ^{58}Ni+^{208}Pb at the Coulomb barrier *(7 pages)* 024606
L. Corradi, A. M. Vinodkumar, A. M. Stefanini, E. Fioretto, G. Prete, S. Beghini, G. Montagnoli, F. Scarlassara, G. Pollarolo, F. Cerutti, and Aage Winther

Single-neutron removal reactions from ^{15}C and ^{11}Be: Deviations from the eikonal approximation *(12 pages)* 024607
J. A. Tostevin, D. Bazin, B. A. Brown, T. Glasmacher, P. G. Hansen, V. Maddalena, A. Navin, and B. M. Sherrill

Hadron formation in high energy photonuclear reactions *(7 pages)* 024608
T. Falter and U. Mosel

Intermediate structures in ^{12}C(^{16}O, ^{12}C[2^+])^{16}O studied with the γ-ray recoil method *(14 pages)* 024609
H. Fujita, M. Hijiya, Y. Inotani, T. Mukae, K. Koga, M. Koga, F. Nakamura, S. Koto, T. Sugimitsu, N. Ikeda, S. Morinobu, Y. Sugiyama, Y. Tomita, H. Ikezoe, Y. Yamanouti, K. Ideno, S. Hamada, and T. Ikuta

New results in the analysis of ^{16}O+ ^{28}Si elastic scattering by modifying the optical potential *(6 pages)* 024610
I. Boztosun

Preequilibrium escape widths of giant resonances *(6 pages)* 024611
M. O. Roos, H. Dias, O. Rodriguez, N. Teruya, and M. S. Hussein

^{8}B breakup in elastic and transfer reactions *(7 pages)* 024612
A. M. Moro, R. Crespo, F. Nunes, and I. J. Thompson

Time dependence of critical behavior in multifragmentation *(6 pages)* 024613
P. Balenzuela, A. Chernomoretz, and C. O. Dorso

(Continued)

PHYSICAL REVIEW C THIRD SERIES, VOLUME 66, NUMBER 2 AUGUST 2002

Relativistic Nuclear Collisions

Event-by-event fluctuations in mean p_T and mean e_T in $\sqrt{s_{NN}}=130$ GeV Au+Au collisions *(10 pages)* 024901

K. Adcox, S. S. Adler, N. N. Ajitanand, Y. Akiba, J. Alexander, L. Aphecetche, Y. Arai, S. H. Aronson, R. Averbeck, T. C. Awes, K. N. Barish, P. D. Barnes, J. Barrette, B. Bassalleck, S. Bathe, V. Baublis, A. Bazilevsky, S. Belikov, F. G. Bellaiche, S. T. Belyaev, M. J. Bennett, Y. Berdnikov, S. Botelho, M. L. Brooks, D. S. Brown, N. Bruner, D. Bucher, H. Buesching, V. Bumazhnov, G. Bunce, J. Burward-Hoy, S. Butsyk, T. A. Carey, P. Chand, J. Chang, W. C. Chang, L. L. Chavez, S. Chernichenko, C. Y. Chi, J. Chiba, M. Chiu, R. K. Choudhury, T. Christ, T. Chujo, M. S. Chung, P. Chung, V. Cianciolo, B. A. Cole, D. G. D'Enterria, G. David, H. Delagrange, A. Denisov, A. Deshpande, E. J. Desmond, O. Dietzsch, B. V. Dinesh, A. Drees, A. Durum, D. Dutta, K. Ebisu, Y. V. Efremenko, K. El Chenawi, H. En'yo, S. Esumi, L. Ewell, T. Ferdousi, D. E. Fields, S. L. Fokin, Z. Fraenkel, A. Franz, A. D. Frawley, S.-Y. Fung, S. Garpman, T. K. Ghosh, A. Glenn, A. L. Godoi, Y. Goto, S. V. Greene, M. Grosse Perdekamp, S. K. Gupta, W. Guryn, H.-Å. Gustafsson, J. S. Haggerty, H. Hamagaki, A. G. Hansen, H. Hara, E. P. Hartouni, R. Hayano, N. Hayashi, X. He, T. K. Hemmick, J. M. Heuser, M. Hibino, J. C. Hill, D. S. Ho, K. Homma, B. Hong, A. Hoover, T. Ichihara, K. Imai, M. S. Ippolitov, M. Ishihara, B. V. Jacak, W. Y. Jang, J. Jia, B. M. Johnson, S. C. Johnson, K. S. Joo, S. Kametani, J. H. Kang, M. Kann, S. S. Kapoor, S. Kelly, B. Khachaturov, A. Khanzadeev, J. Kikuchi, D. J. Kim, H. J. Kim, S. Y. Kim, Y. G. Kim, W. W. Kinnison, E. Kistenev, A. Kiyomichi, C. Klein-Boesing, S. Klinksiek, L. Kochenda, V. Kochetkov, D. Koehler, T. Kohama, D. Kotchetkov, A. Kozlov, P. J. Kroon, K. Kurita, M. J. Kweon, Y. Kwon, G. S. Kyle, R. Lacey, J. G. Lajoie, J. Lauret, A. Lebedev, D. M. Lee, M. J. Leitch, X. H. Li, Z. Li, D. J. Lim, M. X. Liu, X. Liu, Z. Liu, C. F. Maguire, J. Mahon, Y. I. Makdisi, V. I. Manko, Y. Mao, S. K. Mark, S. Markacs, G. Martinez, M. D. Marx, A. Masaike, F. Matathias, T. Matsumoto, P. L. McGaughey, E. Melnikov, M. Merschmeyer, F. Messer, M. Messer, Y. Miake, T. E. Miller, A. Milov, S. Mioduszewski, R. E. Mischke, G. C. Mishra, J. T. Mitchell, A. K. Mohanty, D. P. Morrison, J. M. Moss, F. Mühlbacher, M. Muniruzzaman, J. Murata, S. Nagamiya, Y. Nagasaka, J. L. Nagle, Y. Nakada, B. K. Nandi, J. Newby, L. Nikkinen, P. Nilsson, S. Nishimura, A. S. Nyanin, J. Nystrand, E. O'Brien, C. A. Ogilvie, H. Ohnishi, I. D. Ojha, M. Ono, V. Onuchin, A. Oskarsson, L. Österman, I. Otterlund, K. Oyama, L. Paffrath, A. P. T. Palounek, V. S. Pantuev, V. Papavassiliou, S. F. Pate, T. Peitzmann, A. N. Petridis, C. Pinkenburg, R. P. Pisani, P. Pitukhin, F. Plasil, M. Pollack, K. Pope, M. L. Purschke, I. Ravinovich, K. F. Read, K. Reygers, V. Riabov, Y. Riabov, M. Rosati, A. A. Rose, S. S. Ryu, N. Saito, A. Sakaguchi, T. Sakaguchi, H. Sako, T. Sakuma, V. Samsonov, T. C. Sangster, R. Santo, H. D. Sato, S. Sato, S. Sawada, B. R. Schlei, Y. Schutz, V. Semenov, R. Seto, T. K. Shea, I. Shein, T.-A. Shibata, K. Shigaki, T. Shiina, Y. H. Shin, I. G. Sibiriak, D. Silvermyr, K. S. Sim, J. Simon-Gillo, C. P. Singh, V. Singh, M. Sivertz, A. Soldatov, R. A. Soltz, S. Sorensen, P. W. Stankus, N. Starinsky, P. Steinberg, E. Stenlund, A. Ster, S. P. Stoll, M. Sugioka, T. Sugitate, J. P. Sullivan, Y. Sumi, Z. Sun, M. Suzuki, E. M. Takagui, A. Taketani, M. Tamai, K. H. Tanaka, Y. Tanaka, E. Taniguchi, M. J. Tannenbaum, J. Thomas, J. H. Thomas, T. L. Thomas, W. Tian, J. Tojo, H. Torii, R. S. Towell, I. Tserruya, H. Tsuruoka, A. A. Tsvetkov, S. K. Tuli, H. Tydesjö, N. Tyurin, T. Ushiroda, H. W. van Hecke, C. Velissaris, J. Velkovska, M. Velkovsky, A. A. Vinogradov, M. A. Volkov, A. Vorobyov, E. Vznuzdaev, H. Wang, Y. Watanabe, S. N. White, C. Witzig, F. K. Wohn, C. L. Woody, W. Xie, K. Yagi, S. Yokkaichi, G. R. Young, I. E. Yushmanov, W. A. Zajc, Z. Zhang, and S. Zhou (PHENIX Collaboration)

Negative binomial multiplicity distribution and interferometry based on a generating functional method *(10 pages)* 024902

Hiroki Nakamura and Ryoichi Seki

Electroproduction of charmonia off nuclei *(11 pages)* 024903

Yu. P. Ivanov, B. Z. Kopeliovich, A. V. Tarasov, and J. Hüfner

(Continued)

PHYSICAL REVIEW C THIRD SERIES, VOLUME 66, NUMBER 2 AUGUST 2002

Measuring charge fluctuations in high-energy nuclear collisions *(8 pages)* 024904
Stanisław Mrówczyński
Measures of charge fluctuations in nuclear collisions *(6 pages)* 024905
Jacek Zaranek

Hadronic Physics and QCD

Di-Ω in the extended quark delocalization, color screening model *(6 pages)* 025201
Hourong Pang, Jialun Ping, Fan Wang, and T. Goldman
Neutral pion condensation in the chiral $SU(3)\otimes SU(3)$ model *(7 pages)* 025202
Koichi Takahashi
Magnetic moments of the $\Lambda(1405)$ and $\Lambda(1670)$ resonances *(10 pages)* 025203
D. Jido, A. Hosaka, J. C. Nacher, E. Oset, and A. Ramos
Parton distributions in the valon model *(8 pages)* 025204
Rudolph C. Hwa and C. B. Yang
Inclusive distributions for hadronic collisions in the valon-recombination model *(11 pages)* 025205
Rudolph C. Hwa and C. B. Yang
Path-integral hadronization for the nucleon and its interactions *(13 pages)* 025206
L. J. Abu-Raddad, A. Hosaka, D. Ebert, and H. Toki
Analyzing powers for πp elastic scattering between 57 and 139 MeV *(9 pages)* 025207
J. D. Patterson, G. J. Hofman, J. T. Brack, P. Camerini, J. Clark, P. P. J. Delheij, L. Felawka, E. Fragiacomo, E. F. Gibson, N. Grion, B. Jamieson, E. L. Mathie, R. Meier, D. Ottewell, R. J. Peterson, K. Raywood, R. A. Ristinen, R. Rui, M. E. Sevior, G. R. Smith, R. Tacik, G. Tagliente, G. J. Wagner, and D. M. Yeomans

Nuclear Astrophysics

Neutron capture cross sections for stellar Cd production *(11 pages)* 025801
K. Wisshak, F. Voss, F. Käppeler, and L. Kazakov
Hadron-quark phase transition in dense matter and neutron stars *(14 pages)* 025802
G. F. Burgio, M. Baldo, P. K. Sahu, and H.-J. Schulze
Half-life measurements of proton-rich ^{78}Kr fragments *(8 pages)* 025803
M. J. López Jiménez, B. Blank, M. Chartier, S. Czajkowski, P. Dessagne, G. de France, J. Giovinazzo, D. Karamanis, M. Lewitowicz, V. Maslov, C. Miehé, P. H. Regan, M. Stanoiu, and M. Wiescher

BRIEF REPORTS

In-medium T matrix for neutron matter *(3 pages)* 027301
P. Bożek and P. Czerski
Search for analog molecular chain states in ^{16}C *(4 pages)* 027302
B. J. Greenhalgh, B. R. Fulton, D. L. Watson, N. M. Clarke, L. Donadille, M. Freer, P. J. Leask, W. N. Catford, K. L. Jones, and D. Mahboub
Spontaneous heavy cluster emission rates using microscopic potentials *(4 pages)* 027601
D. N. Basu
Astrophysical S factor for $^{13}C(p,\gamma)^{14}N$ and asymptotic normalization coefficients *(4 pages)* 027602
A. M. Mukhamedzhanov, A. Azhari, V. Burjan, C. A. Gagliardi, V. Kroha, A. Sattarov, X. Tang, L. Trache, and R. E. Tribble
Solution to a long-standing problem: $^{12}C(^{14}N,^{13}N)^{13}C_{1/2+}$ *(4 pages)* 027603
N. Keeley, K. W. Kemper, and D. Robson
Coherent and chaotic generation of pions from relativistic heavy-ion collisions *(4 pages)* 027901
Hiroki Nakamura and Ryoichi Seki

(Continued)

PHYSICAL REVIEW C **THIRD SERIES, VOLUME 66, NUMBER 2** **AUGUST 2002**

Azimuthal asymmetry at large p_t seem to be too large for a pure ''jet quenching'' *(4 pages)* 027902
E. V. Shuryak
Model-independent study of the QCD sum rule for the πNN coupling constant *(4 pages)* 028201
Yoshihiko Kondo and Osamu Morimatsu
Resonance strengths for the reaction $^{28}\mathrm{Si}(\alpha,\gamma)^{32}\mathrm{S}$ at low energies *(4 pages)* 028801
M. Babilon, W. Bayer, D. Galaviz, T. Hartmann, C. Hutter, P. Mohr, W. Rochow, K. Sonnabend, K. Vogt, S. Volz, and A. Zilges
Direct neutron capture cross sections of $^{62}\mathrm{Ni}$ in the *s*-process energy range *(4 pages)* 028802
Thomas Rauscher and Klaus H. Guber

ERRATA

Erratum: Heavy quarkonium dissociation cross sections in relativistic heavy-ion collisions [Phys. Rev. C **65**, 014903 (2002)] *(2 pages)* . . . . . 029901(E)
Cheuk-Yin Wong, E. S. Swanson, and T. Barnes
Erratum: Sequential decay distortion of Goldhaber model widths for spectator fragments [Phys. Rev. C **65**, 051602(R) (2002)] *(1 page)* . . . . . 029902(E)
Y. G. Ma, R. Wada, K. Hagel, M. Murray, J. S. Wang, L. J. Qin, A. Makeev, P. Smith, J. B. Natowitz, and A. Ono

Selected Abstracts from Other Physical Review Journals i
Cumulative Author Index ix