

Current Rapid Communications

Rapid Communications in Physical Review are short reports of important new work which are of sufficient interest to be given priority handling in the publication process. The following papers have been accepted for publication as Rapid Communications and appear as indicated in the designated Physical Review issues.

Physical Review C, Vol. 52, September 1995, Issue 3

- The $^{12}\text{C}(\gamma, K^+)$ reaction in the threshold region
... H. Yamazaki, K. Maeda, S. Asano, T. Emura, S. Endo, S. Ito, H. Itoh, O. Konno, K. Maruyama, K. Niwa,
A. Sakaguchi, T. Suda, Y. Sumi, M. Takeya, T. Terasawa, and H. Yamashita R1157
- $(d, ^2\text{He})$ reactions at $E_d = 125.2$ MeV
..... H.M. Xu, G.K. Ajupova, A.C. Betker, C.A. Gagliardi, B. Kokenge, Y.-W. Lui, and A.F. Zaruba R1161
- Evidence for a proton halo in ^8B : Enhanced total reaction cross sections at 20 to 60 MeV/nucleon
.... R.E. Warner, J.H. Kelley, P. Zecher, F.D. Becchetti, J.A. Brown, C.L. Carpenter, A. Galonsky, J. Kruse,
A. Muthukrishnan, A. Nadasen, R.M. Ronningen, P. Schwandt, B.M. Sherrill, J. Wang, and J.S. Winfield R1166
- Superdeformation in ^{154}Er
..... L.A. Bernstein, J.R. Hughes, J.A. Becker, L.P. Farris, E.A. Henry, S.J. Asztalos, B. Cederwall,
R.M. Clark, M.A. Deleplanque, R.M. Diamond, P. Fallon, I.Y. Lee, A.O. Macchiavelli, F.S. Stephens,
J.A. Cizewski, and W. Younes R1171
- Isospin mixing in proton-rich $N \simeq Z$ nuclei G. Colò, M.A. Nagarajan, P. Van Isacker, and A. Vitturi R1175
- Nuclear shell structure and chaotic dynamics in hexadecapole deformation
..... W.D. Heiss, R.G. Nazmitdinov, and S. Radu R1179
- Finite-temperature corrections in the dilated chiral quark model
..... Youngman Kim, Hyun Kyu Lee, and Mannque Rho R1184
- Color fluctuations in hadrons and proton coherent diffractive dissociation on helium M. Strikman and V. Guzey R1189

Physical Review E, Vol. 52, September 1995, Issue 3

- Non-Poisson statistics of reactive events and nonexponential kinetics Dmitrii E. Makarov and Maria Topaler R2125
- Controlling chaos by pinning neurons in a neural network J.E. Moreira, F.W.S. Lima, and J.S. Andrade, Jr. R2129
- Distributions of self-interactions and voids in $(1 + 1)$ -dimensional directed percolation
..... Greg Huber, Mogens H. Jensen, and Kim Sneppen R2133
- Dynamic scaling: Distinguishing self-organized from generically critical systems Maya Paczusi R2137
- Chaoticity spectrum in Hamiltonian systems with many degrees of freedom
..... Maira D'Alessandro and Alexander Tenenbaum R2141
- Modified method for synchronizing and cascading chaotic systems J. Güémez and M.A. Matías R2145
- Surmounting a fluctuating double well: A numerical study
..... Roland Bartussek, Antonio J.R. Madureira, and Peter Hänggi R2149
- Spontaneous polarization parallel to the tilt plane in the antiferroelectric chiral smectic- C_A phase of liquid crystals as
observed by polarized infrared spectroscopy
..... Kouichi Miyachi, Jin Matsushima, Yoichi Takanishi, Ken Ishikawa, Hideo Takezoe, and Atsuo Fukuda R2153
- Critical fluctuations near the smectic-A-smectic-C transition of a partially perfluorinated compound
..... L. Reed, T. Stoebe, and C.C. Huang R2157
- Double layer relaxation at rough electrodes Amy E. Larsen, David G. Grier, and Thomas C. Halsey R2161
- Molecular ordering of precursor films during spreading of tiny liquid droplets
..... M. Haataja, J.A. Nieminen, and T. Ala-Nissila R2165
- Long-range anticorrelations and non-Gaussian behavior of a leaky faucet
..... T.J.P. Penna, P.M.C. de Oliveira, J.C. Sartorelli, W.M. Gonçalves, and R.D. Pinto R2168
- Attraction of charged particulates in plasmas with finite flows Sergey V. Vladimirov and Mitsuhiro Nambu R2172
- Interaction of an electron beam with nonuniform gas flow V.S. Malinovsky and A.V. Vasenkov R2175
- Transverse instabilities for multiple nonrigid bunches in a storage ring J. Scott Berg and Ronald D. Ruth R2179
- Soliton pinning by long-range order in aperiodic systems
..... Francisco Domínguez-Adame, Angel Sánchez, and Yuri S. Kivshar R2183