

CONTENTS - Continued

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 58, NUMBER 5

NOVEMBER 1998

Quantum mechanics can be formulated as a non-Markovian stochastic process	3426
German A. Skorobogatov and Sergey I. Svertilov	
Asymmetrical quantum sextic anharmonic oscillator: Eigenstates and thermal properties	3433
J. Y. Lee, K. L. Liu, and C. F. Lo	
Duality in perturbation theory and the quantum adiabatic approximation	3439
Marco Frasca	
Double-well potential: The WKB approximation with phase loss and anharmonicity effect	3443
Chang Soo Park, Myung Geun Jeong, Sahng-Kyoon Yoo, and D. K. Park	
Nonadiabatic geometric phase for the cyclic evolution of a time-dependent Hamiltonian system	3448
Jie Liu, Bambi Hu, and Baowen Li	
Search for parity nonconserving optical rotation in atomic samarium	3457
D. M. Lucas, R. B. Warrington, D. N. Stacey, and C. D. Thompson	
Toward an optical evidence of quantum interference between macroscopically distinct states	3472
A. Montina and F. T. Arecchi	
Complementarity and quantum erasure in <i>welcher Weg</i> experiments	3477
Gunnar Björk and Anders Karlsson	
Quantum information	
Quantum cloning in d dimensions	3484
Paolo Zanardi	
Optimal quantum codes for preventing collective amplitude damping	3491
Lu-Ming Duan and Guang-Can Guo	
Quantum capacity is properly defined without encodings	3496
Howard Barnum, John A. Smolin, and Barbara M. Terhal	
Atomic and molecular structure and dynamics	
Elastic cross sections and annihilation parameter for e^+ -H ₂ scattering using the Schwinger multichannel method	3502
Jorge L. S. Lino, José S. E. Germano, Euclimar P. da Silva, and Marco A. P. Lima	
Amount of information present in the one-particle density matrix and the charge density	3507
Juan Carlos Ramírez, Julio Manuel Hernández Pérez, Robin P. Sagar, Rodolfo O. Esquivel, Minhhuu Hô, and Vedene H. Smith, Jr.	
Measurements of $2s\ ^2S_{1/2}-2p\ ^2P_{3/2,1/2}$ transition energies in lithiumlike heavy ions: Experiments and results for Ni ²⁵⁺ and Zn ²⁷⁺	3516
U. Staude, Ph. Bosselmann, R. Büttner, D. Horn, K.-H. Schartner, F. Folkmann, A. E. Livingston, T. Ludziejewski, and P. H. Mokler	
Effective homogeneity of the exchange-correlation energy functional	3524
David J. Tozer	
Measurement of the formation rate and the radiative decay of the muonic molecules $(p\mu^3\text{He})^*$ and $(p\mu^4\text{He})^*$...	3528
S. Tresch, F. Mulhauser, C. Piller, L. A. Schaller, L. Schellenberg, H. Schneuwly, Y.-A. Thalmann, A. Werthmüller, P. Ackerbauer, W. H. Breunlich, M. Cargnelli, B. Gartner, R. King, B. Lauss, J. Marton, W. Prymas, J. Zmeskal, C. Petitjean, M. Augsburg, D. Chatellard, J.-P. Egger, E. Jeannet, T. von Egidy, F. J. Hartmann, M. Mühlbauer, and W. Schott	
Fluorescence and Coster-Kronig yields of the L_1 shell in gadolinium	3537
T. Papp, J. L. Campbell, and S. Raman	
Investigation of the ^{74}W L emission spectra and satellites	3544
Aurel-Mihai Vlaicu, Tatsunori Tochio, Takashi Ishizuka, Daisuke Ohsawa, Yoshiaki Ito, Takeshi Mukoyama, Atsusi Nisawa, Takasi Shoji, and Sinzo Yoshikado	
Order $m\alpha^6$ contributions to ground-state hyperfine splitting in positronium	3552
G. S. Adkins and J. Sapirstein	

(Continued)