PHYSICAL REVIEW A **THIRD SERIES, VOLUME 59, NUMBER 3** **MARCH 1999**

Worldline path integral for the massive Dirac propagator: A four-dimensional approach 1762
C. Alexandrou, R. Rosenfelder, and A. W. Schreiber
Unitary equivalence and phase properties of the quantum parametric and generalized harmonic oscillators 1777
M. Maamache, J.-P. Provost, and G. Vallée
Sensitivity to measurement errors in the quantum kicked top 1781
J. K. Breslin and G. J. Milburn
States that minimize the evolution time to become an orthogonal state 1788
Jonas Söderholm, Gunnar Björk, Tedros Tsegaye, and Alexei Trifonov
Energy-reflection symmetry of Lie-algebraic problems: Where the quasiclassical and weak-coupling expansions meet 1791
M. Shifman and A. Turbiner
Entanglement processing and statistical inference: The Jaynes principle can produce fake entanglement 1799
Ryszard Horodecki, Michał Horodecki, and Paweł Horodecki
Time-of-arrival states 1804
J. Oppenheim, B. Reznik, and W. G. Unruh
Diffraction in time in terms of Wigner distributions and tomographic probabilities 1809
Vladimir Man'ko, Marcos Moshinsky, and Anju Sharma
Quantum tomography of mesoscopic superpositions of radiation states 1816
G. M. D'Ariano, C. Macchiavello, and L. Maccone

Quantum information

Capacity of quantum Gaussian channels 1820
A. S. Holevo, M. Sohma, and O. Hirota
Quantum secret sharing 1829
Mark Hillery, Vladimír Bužek, and André Berthiaume

Atomic and molecular structure and dynamics

Comprehensive analysis of electron correlations in three-electron atoms 1835
Toru Morishita and C. D. Lin
High-resolution spectroscopy of the $1S$-$2S$ transition in atomic hydrogen 1844
A. Huber, B. Gross, M. Weitz, and T. W. Hänsch
Configuration localized Morse wave functions: Application to vibrational transitions in anharmonic diatomic molecules 1852
M. Carvajal, J. M. Arias, and J. Gómez-Camacho
Modified Thomas-Fermi-Dirac approach for the evaluation of atomic ground-state properties 1859
I. Porras and A. Moya
Ground state of CH_2^+: Experimental aspects and theoretical implications 1865
A. Baer, M. Grieser, L. Knoll, J. Levin, R. Repnow, D. Schwalm, Z. Vager, R. Wester, A. Wolf, and D. Zajfman
Ground-state hyperfine measurement in laser-trapped radioactive ^{21}Na 1869
M. A. Rowe, S. J. Freedman, B. K. Fujikawa, G. Gwinner, S.-Q. Shang, and P. A. Vetter
Measurements of $2s\,^2S_{1/2}$-$2p\,^2P_{1/2,3/2}$ transition energies in lithiumlike heavy ions. II. Experimental results for Ag^{44+} and discussion along the isoelectronic series 1874
Ph. Bosselmann, U. Staude, D. Horn, K.-H. Schartner, F. Folkmann, A. E. Livingston, and P. H. Mokler
Measured lifetimes of metastable levels of Mn X, Mn XI, Mn XII, and Mn XIII ions 1884
D. P. Moehs and D. A. Church
Quantum-mechanical calculation of Stark widths of Ne VII $n=3$, $\Delta n=0$ transitions 1890
Yuri V. Ralchenko, Hans R. Griem, Igor Bray, and Dmitry V. Fursa

(Continued)