

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 61, NUMBER 5

MAY 2000

Properties of excitations in systems with a spinor Bose-Einstein condensate (4 pages) Péter Szépfalussy and Gergely Szirmai	051604(R)
--	-----------

Quantum optics, physics of lasers, nonlinear optics

Photonic excess noise and wave localization (3 pages) C. W. J. Beenakker, M. Patra, and P. W. Brouwer	051801(R)
Single atom in free space as a quantum aperture (4 pages) S. J. van Enk and H. J. Kimble	051802(R)
First-order interference of nonclassical light emitted spontaneously at different times (4 pages) Yoon-Ho Kim, Maria V. Chekhova, Sergei P. Kulik, Yanhua Shih, and Morton H. Rubin	051803(R)

ARTICLES

Fundamental concepts

Dynamics of nonlocality for a two-mode squeezed state in a thermal environment (5 pages) Hyunseok Jeong, Jinhyoung Lee, and M. S. Kim	052101
Interferometric information gain versus interaction-free measurement (10 pages) Günther Krenn, Johann Summhammer, and Karl Svozil	052102
Fundamental limit on “interaction-free” measurements (4 pages) Steven H. Simon and P. M. Platzman	052103
Position-momentum Einstein-Podolsky-Rosen state of distantly separated trapped atoms (5 pages) A. S. Parkins and H. J. Kimble	052104
Alternative quantum perturbation theory without divergences (11 pages) Wenhua Hai, Mang Feng, Xiwen Zhu, Lei Shi, Kelin Gao, and Ximing Fang	052105
Molecular localization induced by collisions (4 pages) Vincenzo Grecchi and Andrea Sacchetti	052106
Path-integral approach to the Schrödinger current (10 pages) A. Marchewka and Z. Schuss	052107
Nonlocal aspects of a quantum wave (11 pages) Y. Aharonov and L. Vaidman	052108
Foundations of quantum mechanics: Connection with stochastic processes (14 pages) L. S. F. Olavo	052109
Analysis of zero-point electromagnetic energy and Casimir forces in conducting rectangular cavities (18 pages) G. Jordan Maclay	052110
Time-of-arrival distributions from position-momentum and energy-time joint measurements (11 pages) A. D. Baute, I. L. Egusquiza, J. G. Muga, and R. Sala Mayato	052111
QED corrections to the radiative recombination of an electron with a bare nucleus (12 pages) V. M. Shabaev, V. A. Yerokhin, T. Beier, and J. Eichler	052112
Geometrical approach to two-level Hamiltonians (14 pages) L. Carmel and A. Mann	052113
Mapping Wigner distribution functions into semiclassical distribution functions (8 pages) G. W. Bund and M. C. Tijero	052114

Quantum information

Optimal universal disentangling machine for two-qubit quantum states (7 pages) Sibasish Ghosh, Somshubhro Bandyopadhyay, Anirban Roy, Debasis Sarkar, and Guruprasad Kar	052301
---	--------

(Continued)