

CONTENTS - Continued

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 61, NUMBER 6

JUNE 2000

Quantum optics, physics of lasers, nonlinear optics

Resonance fluorescence spectrum of a trapped ion undergoing quantum jumps (4 pages)	061801
V. Bühner and Chr. Tamm	
Cavity ringdown heterodyne spectroscopy: High sensitivity with microwatt light power (4 pages)	061802
Jun Ye and John L. Hall	

ARTICLES

Fundamental concepts

Time of arrival in the presence of interactions (15 pages)	062101
J. León, J. Julve, P. Pitanga, and F. J. de Urries	
Bell's inequalities for states with positive partial transpose (4 pages)	062102
R. F. Werner and M. M. Wolf	
Quantum-electrodynamic level shifts in an absorbing medium (6 pages)	062103
Reza Matloob	
Nonadiabatic transitions in multilevel systems (15 pages)	062104
Michael Wilkinson and Michael A. Morgan	
Reconstructing the time evolution of a quantized oscillator (10 pages)	062105
R. Gutzeit, S. Wallentowitz, and W. Vogel	
Continuous measurement and non-Markovian quantum trajectories (14 pages)	062106
M. W. Jack and M. J. Collett	
Casimir and van der Waals forces between two plates or a sphere (lens) above a plate made of real metals (12 pages)	062107
G. L. Klimchitskaya, U. Mohideen, and V. M. Mostepanenko	

Quantum information

Hilbert-space structure of a solid-state quantum computer: Two-electron states of a double-quantum-dot artificial molecule (19 pages)	062301
Xuedong Hu and S. Das Sarma	
Separability in $2 \times N$ composite quantum systems (10 pages)	062302
B. Kraus, J. I. Cirac, S. Karnas, and M. Lewenstein	
Amount of information obtained by a quantum measurement (10 pages)	062303
S. Massar and S. Popescu	
Information transfer and fidelity in quantum copiers (13 pages)	062304
P. Deuar and W. J. Munro	
Simulations of quantum-logic operations in a quantum computer with a large number of qubits (7 pages) . . .	062305
G. P. Berman, G. D. Doolen, G. V. López, and V. I. Tsifrinovich	
Two-state teleportation (8 pages)	062306
L. Henderson, L. Hardy, and V. Vedral	
Optimal estimation of two-qubit pure-state entanglement (8 pages)	062307
Antonio Acín, Rolf Tarrach, and Guifré Vidal	
Quantum cryptography using larger alphabets (6 pages)	062308
H. Bechmann-Pasquinucci and W. Tittel	
Entangling dipole-dipole interactions for quantum logic with neutral atoms (10 pages)	062309
Gavin K. Brennen, Ivan H. Deutsch, and Poul S. Jessen	

(Continued)