PHYSICAL REVIEW A **THIRD SERIES, VOLUME 64, NUMBER 4** **OCTOBER 2001**

Collinear two-photon state with spectral properties of type-I and polarization properties of type-II spontaneous parametric down-conversion: Preparation and testing *(4 pages)* . . . . . 041803(R)
A. V. Burlakov, M. V. Chekhova, O. A. Karabutova, and S. P. Kulik

ARTICLES

Fundamental concepts

Multidimensional WKB approximation and the lifetime calculation *(11 pages)* 042101
J. Zamastil, V. Špirko, J. Čížek, L. Skála, and O. Bludský
Casimir force between two dielectric slabs *(11 pages)* 042102
Reza Matloob and Hossain Falinejad
Singular potentials and limit cycles *(8 pages)* 042103
S. R. Beane, P. F. Bedaque, L. Childress, A. Kryjevski, J. McGuire, and U. van Kolck
Generalized coherent states for systems with degenerate energy spectra *(6 pages)* 042104
Ronald F. Fox and Mee Hyang Choi
State and dynamical parameter estimation for open quantum systems *(14 pages)* 042105
Jay Gambetta and H. M. Wiseman
Single-particle nonlocality and entanglement with the vacuum *(6 pages)* 042106
Gunnar Björk, Per Jonsson, and Luis L. Sánchez-Soto
Pseudoforces in quantum mechanics *(5 pages)* 042107
Pravabati Chingangbam and Pankaj Sharan
Independent eigenstates of angular momentum in a quantum *N*-body system *(14 pages)* 042108
Xiao-Yan Gu, Bin Duan, and Zhong-Qi Ma
Explicit measurement theory for quantum mechanics *(15 pages)* 042109
James S. Marsh
Measurement-induced decoherence in a simple quantum system *(9 pages)* 042110
S. Furuta
Quantum Zeno-like effect due to competing decoherence mechanisms *(4 pages)* 042111
Stefano Mancini and Rodolfo Bonifacio
Larmor precession and barrier tunneling time of a neutral spinning particle *(8 pages)* 042112
Zhi-Jian Li, J. Q. Liang, and D. H. Kobe
Quantitative wave-particle duality in multibeam interferometers *(9 pages)* 042113
Stephan Dürr
Realization of optimal disentanglement by teleportation via separable channels *(8 pages)* 042114
Sibasish Ghosh, Guruprasad Kar, Anirban Roy, Debasis Sarkar, and Ujjwal Sen

Quantum information

Quantum key distribution scheme with orthogonal product states *(4 pages)* 042301
Guo-Ping Guo, Chuan-Feng Li, Bao-Sen Shi, Jian Li, and Guang-Can Guo
Thermal concurrence mixing in a one-dimensional Ising model *(7 pages)* 042302
D. Gunlycke, V. M. Kendon, V. Vedral, and S. Bose
Singlet states and the estimation of eigenstates and eigenvalues of an unknown controlled-*U* gate *(5 pages)* 042303
Mark Hillery and Vladimír Bužek
Indeterminate-length quantum coding *(13 pages)* 042304
Benjamin Schumacher and Michael D. Westmoreland
Implications of teleportation for nonlocality *(9 pages)* 042305
Jonathan Barrett

(Continued)