

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 79, NUMBER 1

JANUARY 2009

Matter waves

Paired-atom laser beams created via four-wave mixing (<i>4 pages</i>)	011601(R)
R. G. Dall, L. J. Byron, A. G. Truscott, G. R. Dennis, M. T. Johnsson, and J. J. Hope	
Creating a supersolid in one-dimensional Bose mixtures (<i>4 pages</i>)	011602(R)
L. Mathey, Ippei Danshita, and Charles W. Clark	
Fast rotating condensates in an asymmetric harmonic trap (<i>4 pages</i>)	011603(R)
Amandine Aftalion, Xavier Blanc, and Nicolas Lerner	
Practical scheme for a light-induced gauge field in an atomic Bose gas (<i>4 pages</i>)	011604(R)
Kenneth J. Günter, Marc Cheneau, Tarik Yefsah, Steffen P. Rath, and Jean Dalibard	
Bloch oscillations of a Bose-Einstein condensate in a subwavelength optical lattice (<i>4 pages</i>)	011605(R)
Tobias Salger, Gunnar Ritt, Carsten Geckeler, Sebastian Kling, and Martin Weitz	
Loss of superfluidity by fermions in the boson Hubbard model on an optical lattice (<i>4 pages</i>)	011606(R)
Roman M. Lutchyn, Sumanta Tewari, and S. Das Sarma	

Quantum optics, physics of lasers, nonlinear optics, classical optics

Linearly polarized bistable localized structure in medium-size vertical-cavity surface-emitting lasers (<i>4 pages</i>)	011801(R)
Xavier Hachair, Giovanna Tissoni, Hugo Thienpont, and Krassimir Panajotov	
Two-way transparency in the light-matter interaction: Optical precursors with electromagnetically induced transparency (<i>4 pages</i>)	011802(R)
Heejeong Jeong and Shengwang Du	
Degenerate perturbation theory describing the mixing of orbital angular momentum modes in Fabry-Perot cavity resonators (<i>4 pages</i>)	011803(R)
David H. Foster, Andrew K. Cook, and Jens U. Nöckel	
Overcoming non-Markovian dephasing in single-photon sources through postselection (<i>4 pages</i>)	011804(R)
A. Nazir and S. D. Barrett	
Rotational stabilization and destabilization of an optical cavity (<i>4 pages</i>)	011805(R)
Steven J. M. Habraken and Gerard Nienhuis	
Surface optical vortices (<i>4 pages</i>)	011806(R)
V. E. Lembessis, M. Babiker, and D. L. Andrews	
Spin and orbital Hall effects for diffracting optical beams in gradient-index media (<i>4 pages</i>)	011807(R)
Konstantin Y. Bliokh and Anton S. Desyatnikov	

ARTICLES

Fundamental concepts

Violations of Bell's inequality for Gaussian states with homodyne detection and nonlinear interactions (<i>7 pages</i>)	012101
M. Paternostro, H. Jeong, and T. C. Ralph	
Quantum contextuality in the Mermin-Peres square: A hidden-variable perspective (<i>13 pages</i>)	012102
Brian R. La Cour	

(Continued)