

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 78, NUMBER 6

DECEMBER 2008

- Collision-induced spin depolarization of alkali-metal atoms in cold ^3He gas (*4 pages*) 060703(R)
T. V. Tscherbul, P. Zhang, H. R. Sadeghpour, A. Dalgarno, N. Brahms, Y. S. Au, and J. M. Doyle

Atomic and molecular processes in external fields, including interactions with strong fields and short pulses

- Translational cooling and storage of protonated proteins in an ion trap at subkelvin temperatures (*4 pages*) 061401(R)
D. Offenberg, C. B. Zhang, Ch. Wellers, B. Roth, and S. Schiller

- Retrieving photorecombination cross sections of atoms from high-order harmonic spectra (*4 pages*) 061402(R)
Shinichirou Minemoto, Toshihito Umegaki, Yuichiro Oguchi, Toru Morishita, Anh-Thu Le, Shinichi Watanabe, and Hirofumi Sakai

Matter waves

- Association of ultracold double-species bosonic molecules (*4 pages*) 061601(R)
C. Weber, G. Barontini, J. Catani, G. Thalhammer, M. Inguscio, and F. Minardi

- Radio-frequency association of heteronuclear Feshbach molecules (*4 pages*) 061602(R)
C. Klempt, T. Henninger, O. Topic, M. Scherer, L. Kattner, E. Tiemann, W. Ertmer, and J. J. Arlt

- Tunneling-induced damping of phase coherence revivals in deep optical lattices (*4 pages*) 061603(R)
Uwe R. Fischer and Ralf Schützhold

- Coherent energy manipulation in single-neutron interferometry (*4 pages*) 061604(R)
S. Sponar, J. Klepp, R. Loidl, S. Filipp, G. Badurek, Y. Hasegawa, and H. Rauch

- Interference of Bose-Einstein condensates: Quantum nonlocal effects (*4 pages*) 061605(R)
W. J. Mullin and F. Laloë

- Phase separation in a mixture of a Bose-Einstein condensate and a two-component Fermi gas as a probe of Fermi superfluidity (*4 pages*) 061606(R)
S. G. Bhongale and H. Pu

- Collapse times of dipolar Bose-Einstein condensates (*4 pages*) 061607(R)
C. Ticknor, N. G. Parker, A. Melatos, S. L. Cornish, D. H. J. O'Dell, and A. M. Martin

- Stirring trapped atoms into fractional quantum Hall puddles (*4 pages*) 061608(R)
Stefan K. Baur, Kaden R. A. Hazzard, and Erich J. Mueller

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

- Dark polariton solitons in semiconductor microcavities (*4 pages*) 061801(R)
A. V. Yulin, O. A. Egorov, F. Lederer, and D. V. Skryabin

- Computational ghost imaging (*4 pages*) 061802(R)
Jeffrey H. Shapiro

- Self-focusing of few optical cycle pulses (*4 pages*) 061803(R)
A. A. Balakin, A. G. Litvak, V. A. Mironov, and S. A. Skobelev

- Multiple-stream instabilities and soliton turbulence in photonic plasma (*4 pages*) 061804(R)
Dmitry V. Dylov and Jason W. Fleischer

(Continued)