

CONTENTS - Continued

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 77, NUMBER 3

MARCH 2008

Vibrational energy transfer in ultracold molecule-molecule collisions (<i>4 pages</i>)	030704(R)
Goulven Quémener, Naduvalath Balakrishnan, and Roman V. Krems	

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

<i>Ab initio</i> theoretical investigation of the frequency comb structure and coherence in the vuv-xuv regimes via high-order harmonic generation (<i>4 pages</i>)	031401(R)
Juan J. Carrera, Sang-Kil Son, and Shih-I Chu	
High-order harmonic generation and molecular orbital tomography: Characteristics of molecular recollision electronic wave packets (<i>4 pages</i>)	031402(R)
Y. Chen, Y. Li, S. Yang, and J. Liu	
Laser-field-free molecular orientation with combined electrostatic and rapidly-turned-off laser fields (<i>4 pages</i>)	031403(R)
Yu Sugawara, Akihisa Goban, Shinichirou Minemoto, and Hirofumi Sakai	
Alternating-gradient focusing and deceleration of large molecules (<i>4 pages</i>)	031404(R)
Kirstin Wohlfart, Fabian Grätz, Frank Filsinger, Henrik Haak, Gerard Meijer, and Jochen Küpper	
Proposal of a cold-atom realization of quantum maps with Hofstadter's butterfly spectrum (<i>4 pages</i>)	031405(R)
Jiao Wang and Jiangbin Gong	

Matter waves

Twin peaks in rf spectra of Fermi gases at unitarity (<i>4 pages</i>)	031601(R)
P. Massignan, G. M. Bruun, and H. T. C. Stoof	
Coherent single atom shuttle between two Bose-Einstein condensates (<i>4 pages</i>)	031602(R)
Uwe R. Fischer, Christian Iniotakis, and Anna Posazhennikova	
Multibeam atom laser: Coherent atom beam splitting from a single far-detuned laser (<i>4 pages</i>)	031603(R)
J. Dugué, G. Dennis, M. Jeppesen, M. T. Johnsson, C. Figl, N. P. Robins, and J. D. Close	
Measurement of the ac Stark shift with a guided matter-wave interferometer (<i>4 pages</i>)	031604(R)
B. Deissler, K. J. Hughes, J. H. T. Burke, and C. A. Sackett	
Stability and free expansion of a dipolar Fermi gas (<i>4 pages</i>)	031605(R)
L. He, J.-N. Zhang, Yunbo Zhang, and S. Yi	

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

White-light cavity with competing linear and nonlinear dispersions (<i>4 pages</i>)	031801(R)
Haibin Wu and Min Xiao	
Observation of optomechanical multistability in a high- <i>Q</i> torsion balance oscillator (<i>4 pages</i>)	031802(R)
F. Mueller, S. Heugel, and L. J. Wang	
Strongly correlated polaritons in a two-dimensional array of photonic crystal microcavities (<i>4 pages</i>)	031803(R)
Neil Na, Shoko Utsunomiya, Lin Tian, and Yoshihisa Yamamoto	

ARTICLES

Fundamental concepts

Test of weak measurement on a two- or three-qubit computer (<i>6 pages</i>)	032101
Todd A. Brun, Lajos Diósi, and Walter T. Strunz	

(Continued)