PHYSICAL REVIEW A

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 1050-2947)

PERIODICALS
Postmaster send address changes to:
APS Subscription Services
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 78, NUMBER 4 PARTS A AND B — *CONTENTS* — **OCTOBER 2008**

The Table of Contents is a total listing of Parts A and B.
Part A consists of pages 040101, and Part B pages 042714.

PART A

EDITORIALS AND ANNOUNCEMENTS

Editorial: APS now leaves copyright with authors for derivative works *(1 page)* 040001
Gene D. Sprouse

RAPID COMMUNICATIONS

Fundamental concepts

Dynamical symmetry of Dirac hydrogen atom with spin symmetry and its connection with Ginocchio's oscillator *(4 pages)* . . . . . 040101(R)
Fu-Lin Zhang, Bo Fu, and Jing-Ling Chen

Quantum information

Entangling distant quantum dots using classical interference *(4 pages)* . . . . . 040301(R)
Jonathan Busch, Elica S. Kyoseva, Michael Trupke, and Almut Beige

Atomic and molecular collisions and interactions

Spectral linewidth broadening from pair fluctuations in a frozen Rydberg gas *(4 pages)* . . . . . 040701(R)
B. Sun and F. Robicheaux

Three-body breakup in dissociative electron attachment to the water molecule *(4 pages)* . . . . . 040702(R)
Daniel J. Haxton, Thomas N. Rescigno, and C. William McCurdy

Low-energy resonances and bound states of aligned bosonic and fermionic dipoles *(4 pages)* . . . . . 040703(R)
K. Kanjilal and D. Blume

Melting a frozen Rydberg gas with an attractive potential *(4 pages)* . . . . . 040704(R)
Matthieu Viteau, Amodsen Chotia, Daniel Comparat, Duncan A. Tate, T. F. Gallagher, and Pierre Pillet

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

Molecular rescattering signature in above-threshold ionization *(4 pages)* . . . . . 041401(R)
C. Cornaggia

Copyright 2008 by The American Physical Society

(Continued)

1050-2947(200810)78:4:A;1-H