

PHYSICAL REVIEW A

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

PERIODICALS

Postmaster send address changes to:
American Institute of Physics
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 67, NUMBER 1

CONTENTS

JANUARY 2003

Announcement: Color Online Only For <i>Physical Review</i>	iii
Physical Review A Editorial Policies and Practices	v
Physical Review A Information for Contributors	ix
Guidelines for PRA Section Selection	xii

RAPID COMMUNICATIONS

Fundamental concepts

Compatibility of quantum states (<i>4 pages</i>)	010101(R)
David Poulin and Robin Blume-Kohout	

Quantum information

Experimental entanglement concentration and universal Bell-state synthesizer (<i>4 pages</i>)	010301(R)
Yoon-Ho Kim, Sergei P. Kulik, Maria V. Chekhova, Warren P. Grice, and Yanhua Shih	
Engineering functional quantum algorithms (<i>4 pages</i>)	010302(R)
Andreas Klappenecker and Martin Rötteler	
Checking $2 \times M$ quantum separability via semidefinite programming (<i>4 pages</i>)	010303(R)
Hugo J. Woerdeman	

Atomic and molecular structure and dynamics

Precision measurement of the metastable $^3P_2$ lifetime of neon (<i>4 pages</i>)	010501(R)
Martin Zinner, Peter Spoden, Tobias Kraemer, Gerhard Birkel, and Wolfgang Ertmer	

Atomic and molecular collisions and interactions

Importance of non-first-order effects in the ($e, 3e$) double ionization of helium (<i>4 pages</i>)	010701(R)
A. Lahmam-Bennani, A. Duguet, C. Dal Cappello, H. Nebdi, and B. Piraux	
Measurements of the ionization of atomic hydrogen by 17.6-eV electrons (<i>4 pages</i>)	010702(R)
Jochen Röder, Mark Baertschy, and Igor Bray	
Three-body problem in Fermi gases with short-range interparticle interaction (<i>4 pages</i>)	010703(R)
D. S. Petrov	



Shifts in electron capture to the continuum at low collision energies: Enhanced role of target postcollision interactions (<i>4 pages</i>)	010704(R)
M. B. Shah, C. McGrath, Clara Illescas, B. Pons, A. Riera, H. Luna, D. S. F. Crothers, S. F. C. O'Rourke, and H. B. Gilbody	

Atomic and molecular processes in external fields

Magnetic trapping of metastable $^3P_2$ atomic strontium (<i>4 pages</i>)	011401(R)
S. B. Nagel, C. E. Simien, S. Laha, P. Gupta, V. S. Ashoka, and T. C. Killian	
Measurement of the forbidden tensor polarizability of Cs using an all-optical Ramsey resonance technique (<i>4 pages</i>)	011402(R)
C. Ospelkaus, U. Rasbach, and A. Weis	
Observation of the geometric phase using photon echoes (<i>4 pages</i>)	011403(R)
Mingzhen Tian, Randy R. Reibel, Zeb W. Barber, Joe A. Fischer, and Wm. Randall Babbitt	

Matter waves

Bose-Einstein condensates with attractive interactions on a ring (<i>4 pages</i>)	011601(R)
G. M. Kavoulakis	
<i>In situ</i> velocity imaging of ultracold atoms using slow light (<i>4 pages</i>)	011602(R)
M. Artoni and I. Carusotto	
Interaction-induced phase fluctuations in a guided atom laser (<i>4 pages</i>)	011603(R)
Isabelle Bouchoule and Klaus Mølmer	

Quantum optics, physics of lasers, nonlinear optics

Light propagation in an atomic medium with steep and sign-reversible dispersion (<i>4 pages</i>)	011801(R)
A. M. Akulshin, A. Cimmino, A. I. Sidorov, P. Hannaford, and G. I. Opat	

ARTICLES**Fundamental concepts**

Quartic anharmonic oscillator and non-Hermiticity (<i>9 pages</i>)	012101
Jing-Ling Chen, L. C. Kwek, and C. H. Oh	
Diffraction in time of particles released from spherical traps (<i>5 pages</i>)	012102
Salvador Godoy	
Relativistic entanglement and Bell's inequality (<i>8 pages</i>)	012103
Doyeol Ahn, Hyuk-jae Lee, Young Hoon Moon, and Sung Woo Hwang	
Three-dimensional harmonic oscillator and time evolution in quantum mechanics (<i>5 pages</i>)	012104
Pavel Kunderát and Miloš Lokajíček	
Maximal violation of Bell inequalities using continuous-variable measurements (<i>7 pages</i>)	012105
Jérôme Wenger, Mohammad Hafezi, Frédéric Grosshans, Rosa Tualle-Brouri, and Philippe Grangier	
Quantum nonlocality test for continuous-variable states with dichotomic observables (<i>7 pages</i>)	012106
H. Jeong, W. Son, M. S. Kim, D. Ahn, and Č. Brukner	
How to mix a density matrix (<i>6 pages</i>)	012107
Ingemar Bengtsson and Åsa Ericsson	
Classification of multipartite entangled states by multidimensional determinants (<i>10 pages</i>)	012108
Akimasa Miyake	
Einstein-Podolsky-Rosen correlations and Galilean transformations (<i>8 pages</i>)	012109
Paweł Caban, Jakub Rembieliński, Kordian A. Smoliński, and Zbigniew Walczak	

Relativistic analysis of a wave packet interacting with a quantum-mechanical barrier (7 pages)	012110
Vittoria Petrillo and Davide Janner	
Quantum information	
Error rate of the Kane quantum computer controlled-NOT gate in the presence of dephasing (6 pages)	012301
Austin G. Fowler, Cameron J. Wellard, and Lloyd C. L. Hollenberg	
Shor-Preskill-type security proof for quantum key distribution without public announcement of bases (5 pages)	012302
Won-Young Hwang, Xiang-Bin Wang, Keiji Matsumoto, Jaewan Kim, and Hai-Woong Lee	
Efficient distillation beyond qubits (9 pages)	012303
Karl Gerd H. Vollbrecht and Michael M. Wolf	
Bit-commitment-based quantum coin flipping (11 pages)	012304
Ashwin Nayak and Peter Shor	
Upper bound on the global fidelity for mixed-state cloning (3 pages)	012305
A. E. Rastegin	
Optimal entanglement generation from quantum operations (7 pages)	012306
M. S. Leifer, L. Henderson, and N. Linden	
Concurrence-based entanglement measures for isotropic states (9 pages)	012307
Pranaw Rungta and Carlton M. Caves	
Effect of noise on geometric logic gates for quantum computation (7 pages)	012308
A. Blais and A.-M. S. Tremblay	
Scalable ion trap quantum computation in decoherence-free subspaces with pairwise interactions only (5 pages)	012309
K. R. Brown, J. Vala, and K. B. Whaley	
Quantum cryptography based on qutrit Bell inequalities (4 pages)	012310
Dagomir Kaszlikowski, D. K. L. Oi, Matthias Christandl, Kelken Chang, Artur Ekert, L. C. Kwek, and C. H. Oh	
Security of quantum key distribution with entangled qutrits (6 pages)	012311
Thomas Durt, Nicolas J. Cerf, Nicolas Gisin, and Marek Zukowski	
Quantum entanglement of excitons in coupled quantum dots (8 pages)	012312
Ping Zhang, C. K. Chan, Qi-Kun Xue, and Xian-Geng Zhao	
Entanglement entropy of multipartite pure states (7 pages)	012313
Sergei Bravyi	
Universal quantum cloning in cavity QED (4 pages)	012314
P. Milman, H. Ollivier, and J. M. Raimond	
Entanglement in the one-dimensional Kondo necklace model (8 pages)	012315
A. Saguia and M. S. Sarandy	
Stokes-operator-squeezed continuous-variable polarization states (11 pages)	012316
Roman Schnabel, Warwick P. Bowen, Nicolas Treps, Timothy C. Ralph, Hans-A. Bachor, and Ping Koy Lam	
Robust Ising gates for practical quantum computation (3 pages)	012317
Jonathan A. Jones	
Entanglement transfer from dissociated molecules to photons (6 pages)	012318
David Petrosyan, Gershon Kurizki, and Moshe Shapiro	
Realization of arbitrary gates in holonomic quantum computation (10 pages)	012319
Antti O. Niskanen, Mikio Nakahara, and Martti M. Salomaa	
Quantum discord and Maxwell's demons (6 pages)	012320
Wojciech Hubert Zurek	
Optimal discrimination of mixed quantum states involving inconclusive results (5 pages)	012321
Jaromír Fiurášek and Miroslav Ježek	

Entangled graphs: Bipartite entanglement in multiqubit systems (6 pages)	012322
Martin Plesch and Vladimír Bužek	
Asymmetric quantum telecloning of d -level systems and broadcasting of entanglement to different locations using the “many-to-many” communication protocol (12 pages)	012323
Iulia Ghiu	
Empirical determination of dynamical decoupling operations (14 pages)	012324
Mark S. Byrd and Daniel A. Lidar	
Robust generation of entanglement between two cavities mediated by short interactions with an atom (7 pages)	012325
Daniel E. Browne and Martin B. Plenio	
Communication cost of entanglement transformations (8 pages)	012326
Patrick Hayden and Andreas Winter	
Geometry of entanglement witnesses and local detection of entanglement (8 pages)	012327
Arthur O. Pittenger and Morton H. Rubin	

Atomic and molecular structure and dynamics

Criticality of the electron-nucleus cusp condition to local effective potential-energy theories (5 pages)	012501
Xiao-Yin Pan and Viraht Sahni	
Linear dichroism of the $4f$ photoemission in the giant resonance of atomic europium (8 pages)	012502
J. Schulz, Ph. Wernet, M. Martins, B. Sonntag, R. Müller, K. Godehusen, and P. Zimmermann	
Evaluation of the low-lying energy levels of two- and three-electron configurations for multicharged ions (11 pages)	012503
O. Yu. Andreev, L. N. Labzowsky, G. Plunien, and G. Soff	
Theory of forbidden transitions in light atoms (6 pages)	012504
Krzysztof Pachucki	
Algorithm to derive exact exchange-correlation potentials from correlated densities in atoms (12 pages)	012505
K. Peirs, D. Van Neck, and M. Waroquier	
Hyperfine and fine-structure measurements of ${}^6,7\text{Li}^+ 1s2s {}^3S$ and $1s2p {}^3P$ states (5 pages)	012506
J. J. Clarke and W. A. van Wijngaarden	
Shannon-information entropy sum as a correlation measure in atomic systems (6 pages)	012507
Nicolais L. Guevara, Robin P. Sagar, and Rodolfo O. Esquivel	
Wavelength measurement of the prominent $M1$ transition in the ground state of Ti-like Pt, Au, and Tl ions (5 pages)	012508
S. B. Utter, P. Beiersdorfer, and E. Träbert	
$2 {}^2S_{1/2} - 4 {}^2S_{1/2}$ transition of atomic lithium by Doppler-free two-photon spectroscopy (5 pages)	012509
W. DeGraffenreid and Craig J. Sansonetti	

Atomic and molecular collisions and interactions

Photoionization of isoelectronic ions: Mg^+ and Al^{2+} (8 pages)	012701
A. Aguilar, J. B. West, R. A. Phaneuf, R. L. Brooks, F. Folkmann, H. Kjeldsen, J. D. Bozek, A. S. Schlachter, and C. Cisneros	
Absolute total destruction cross sections of B and Al small anionic clusters impinging on N_2 targets (5 pages)	012702
F. Zappa, L. F. S. Coelho, S. D. Magalhães, W. M. S. Santos, A. M. Luiz, M. H. P. Martins, A. L. F. de Barros, J. A. M. Pereira, and N. V. de Castro Faria	
Perturbative and nonperturbative calculations of electron-hydrogen ionization (5 pages)	012703
S. Jones, D. H. Madison, and M. Baertschy	
Ultraslow $\bar{p}$ -H collisions in hyperspherical coordinates: Hydrogen and protonium channels (6 pages)	012704
B. D. Esry and H. R. Sadeghpour	

Theoretical threshold law of positron-impact ionization of He (6 pages)	012705
Tien-Yow Kuo, Hsiao-Ling Sun, and Keh-Ning Huang	
Angle-dependent postcollisional interaction and interference effects in resonant double photoionization of neon (9 pages)	012706
B. Rouvellou, S. Rioual, L. Avaldi, R. Camilloni, G. Stefani, and G. Turri	
Phase-resolved emission spectroscopy of a hydrogen rf discharge for the determination of quenching coefficients (11 pages)	012707
T. Gans, Chun C. Lin, V. Schulz-von der Gathen, and H. F. Döbele	
Polarization of argon K x radiation following electron-impact ionization (5 pages)	012708
R. K. Singh and R. Shanker	
Single ionization of the 1^1S^e and 2^1P^o states of He by 1-GeV/u U^{92+} ions (5 pages)	012709
A. V. Selin, A. M. Ermolaev, and C. J. Joachain	
Charge transfer of O^{3+} ions with atomic hydrogen (11 pages)	012710
J. G. Wang, P. C. Stancil, A. R. Turner, and D. L. Cooper	
Total and differential cross-section calculations for the double photoionization of the helium $1s2s^1,^3S$ states (7 pages)	012711
J. Colgan and M. S. Pindzola	
Strong nondipole effect created by multielectron correlation in 5s photoionization of xenon (4 pages)	012712
S. Ricz, R. Sankari, Á. Kövér, M. Jurvansuu, D. Varga, J. Nikkinen, T. Ricsoka, H. Aksela, and S. Aksela	
Scattering of sulfur ions by carbon: Classical-trajectory Monte Carlo results (10 pages)	012713
Katarzyna Słabkowska, Marek Polasik, and Maciej Janowicz	

Photon, electron, atom, and molecule interactions with solids and surfaces

Determination of the gas-surface scattering kernel from two-photon evanescent-volume-wave fluorescence spectra (8 pages)	012901
V. G. Bordo and H.-G. Rubahn	
Stochastic treatment of nonequilibrium ion stopping in solids (7 pages)	012902
Z. L. Mišković, F. O. Goodman, W. -K. Liu, and You-Nian Wang	
Liouville master equation for multielectron dynamics: Neutralization of highly charged ions near a LiF surface (19 pages)	012903
Ludger Wirtz, Carlos O. Reinhold, Christoph Lemell, and Joachim Burgdörfer	

Clusters (including fullerenes)

Electronic structures and magic numbers of small silver clusters: A many-body perturbation-theoretic study (13 pages)	013201
M. N. Huda and A. K. Ray	
Photoionization studies of chromium clusters: Ionization energies of Cr_4 to Cr_{25} (6 pages)	013202
Mark B. Knickelbein	
Gas-phase anions containing B and N (5 pages)	013203
R. Vandenbosch	

Atomic and molecular processes in external fields

Quantum beats induced by spectral diffusion between independent two-level systems (8 pages)	013401
C. Crépin	
Observation of the hyperfine structure of the $^2S_{1/2}$ - $^2D_{5/2}$ transition in $^{87}Sr^+$ (5 pages)	013402
G. P. Barwood, K. Gao, P. Gill, G. Huang, and H. A. Klein	

Production of quasi-one-dimensional very-high- n Rydberg atoms (6 pages)	013403
C. L. Stokely, J. C. Lancaster, F. B. Dunning, D. G. Arbó, C. O. Reinhold, and J. Burgdörfer	
Enhanced ionization in small rare-gas clusters (11 pages)	013404
Christian Siedschlag and Jan M. Rost	
Perpendicular dissociation of D_2^+ in intense Ti:sapphire laser pulses (17 pages)	013405
T. T. Nguyen-Dang, H. Abou-Rachid, N. A. Nguyen, N. Mireault, J. Lévesque, K. Vijayalakshmi, and S. L. Chin	
Strong-field molecular alignment for quantum logic and quantum control (5 pages)	013406
E. A. Shapiro, I. Khavkine, Michael Spanner, and Misha Yu. Ivanov	
Molecular above-threshold-ionization spectra: The effect of moving nuclei (11 pages)	013407
Andre D. Bandrauk, S. Chelkowski, and Isao Kawata	
Limiting temperature of sympathetically cooled ions in a radio-frequency trap (4 pages)	013408
Taro Hasegawa and Tadao Shimizu	
Effect of impulsive transient electric fields on autoionization (11 pages)	013409
J. G. Zeibel, S. N. Pisharody, and R. R. Jones	
Theory of light-induced drift. III. Models of surface and bulk light-induced drift in one dimension (7 pages)	013410
Frank O. Goodman	
Theory of light-induced drift. IV. Models of bulk light-induced drift in three dimensions (5 pages)	013411
Frank O. Goodman	
Hydrogen atom in a strong magnetic field (6 pages)	013412
A. Rutkowski and A. Poszwa	
Mixed classical-quantum approach to excitation, ionization, and fragmentation of H_2^+ in intense laser fields (8 pages)	013413
Mathias Uhlmann, Thomas Kunert, Frank Grossmann, and Rüdiger Schmidt	
Decay of a weakly bound level in a monochromatic electromagnetic field and a static magnetic field (9 pages)	013414
V. M. Rylyuk and J. Ortner	
Instability heating of sympathetically cooled ions in a linear Paul trap (8 pages)	013415
T. J. Harmon, N. Moazzan-Ahmadi, and R. I. Thompson	
Wave-packet reconstruction via local dynamics in a parabolic lattice (4 pages)	013416
Quentin Thommen, Véronique Zehnle, and Jean Claude Garreau	

Matter waves

Microscopic theory of atom-molecule oscillations in a Bose-Einstein condensate (17 pages)	013601
Thorsten Köhler, Thomas Gasenzer, and Keith Burnett	
Bose-Einstein condensates in optical lattices: Band-gap structure and solitons (9 pages)	013602
Pearl J. Y. Louis, Elena A. Ostrovskaya, Craig M. Savage, and Yuri S. Kivshar	
Nonlinear phase mismatch and optimal input combination in atomic four-wave mixing in Bose-Einstein condensates (7 pages)	013603
Qiguang Yang, Jae Tae Seo, Santiel Creekmore, Doyle A. Temple, Peixian Ye, Carl Bonner, M. Namkung, S. S. Jung, and J. H. Kim	
Index of refraction for sodium matter waves traveling in a cold noble-gas medium (7 pages)	013604
Shannon Blanchard, Dave Civello, and Robert C. Forrey	
Controlling collapse in Bose-Einstein condensates by temporal modulation of the scattering length (10 pages)	013605
Fatkhulla Kh. Abdullaev, Jean Guy Caputo, Robert A. Kraenkel, and Boris A. Malomed	
Quantum phase transition in a multicomponent Bose-Einstein condensate in optical lattices (8 pages)	013606
Guang-Hong Chen and Yong-Shi Wu	

Many-particle entanglement in two-component Bose-Einstein condensates (11 pages)	013607
A. Micheli, D. Jaksch, J. I. Cirac, and P. Zoller	
Quantum phase transition in one-dimensional Bose-Einstein condensates with attractive interactions (7 pages)	013608
Rina Kanamoto, Hiroki Saito, and Masahito Ueda	
Entanglement of two-mode Bose-Einstein condensates (10 pages)	013609
Andrew P. Hines, Ross H. McKenzie, and Gerard J. Milburn	
Scattering of atoms on a Bose-Einstein condensate (7 pages)	013610
Uffe V. Poulsen and Klaus Mølmer	
Dissipative dynamics of a Josephson junction in the Bose gases (10 pages)	013611
R. A. Barankov and S. N. Burmistrov	
Quantum optics, physics of lasers, nonlinear optics	
Spectral and spatial characteristics of third-harmonic generation in conical light beams (7 pages)	013801
V. E. Peet and S. V. Shchemel'ov	
Theoretical study of the erbium-doped fiber laser passively mode-locked by nonlinear polarization rotation (7 pages)	013802
M. Salhi, H. Leblond, and F. Sanchez	
Phase states for a three-level atom interacting with quantum fields (8 pages)	013803
A. B. Klimov, L. L. Sánchez-Soto, J. Delgado, and E. C. Yustas	
Models for optical solitons in the two-cycle regime (8 pages)	013804
H. Leblond and F. Sanchez	
Field quantization for open optical cavities (16 pages)	013805
Carlos Viviescas and Gregor Hackenbroich	
Temporal buildup of electromagnetically induced transparency and absorption resonances in degenerate two-level transitions (10 pages)	013806
P. Valente, H. Failache, and A. Lezama	
Casimir interaction between two concentric cylinders: Exact versus semiclassical results (11 pages)	013807
Francisco D. Mazzitelli, María J. Sánchez, Norberto N. Scoccola, and Javier von Stecher	
Phase-coherent all-optical frequency division by three (13 pages)	013808
Dong-Hoon Lee, Marvin E. Klein, Jan-Peter Meyn, Richard Wallenstein, Petra Groß, and Klaus-Jochen Boller	
Rate equations for vertical-cavity surface-emitting lasers (7 pages)	013809
Guy Van der Sande, Jan Danckaert, Irina Veretennicoff, and Thomas Erneux	
Simulation study of a Ne-like Ti x-ray laser at 32.6 nm driven by femtosecond laser pulses (5 pages)	013810
X. Lu, Y. J. Li, Y. Cang, K. Li, and J. Zhang	
Large enhancement of four-wave mixing by suppression of photon absorption from electromagnetically induced transparency (5 pages)	013811
Ying Wu, Joseph Saldana, and Yifu Zhu	
Quantum-field-theoretical approach to phase-space techniques: Generalizing the positive- P representation (14 pages)	013812
L. I. Plimak, M. Fleischhauer, M. K. Olsen, and M. J. Collett	
Secondary bifurcations and transverse standing-wave patterns in anisotropic microcavity lasers close to the first laser threshold (8 pages)	013813
I. V. Babushkin, N. A. Loiko, and T. Ackemann	
Coherent backscattering of light in atomic systems: Application to weak localization in an ensemble of cold alkali-metal atoms (13 pages)	013814
D. V. Kupriyanov, I. M. Sokolov, P. Kulatunga, C. I. Sukenik, and M. D. Havey	

Effect of the carrier-envelope phase of the driving laser field on the high-order harmonic attosecond pulse (6 pages)	013815
Zhinan Zeng, Ruxin Li, Wei Yu, and Zhizhan Xu	
Anomalies in high-order harmonic generation at relativistic intensities (11 pages)	013816
U. Teubner, G. Pretzler, Th. Schlegel, K. Eidmann, E. Förster, and K. Witte	
Quantum fluctuations and entanglement in the collective atomic recoil laser using a Bose-Einstein condensate (11 pages)	013817
N. Piovella, M. Cola, and R. Bonifacio	
Quantum well in a microcavity with injected squeezed vacuum (10 pages)	013818
Daniel Erenso, Reeta Vyas, and Surendra Singh	

BRIEF REPORTS**Fundamental concepts**

Role of locality in Einstein-Podolsky-Rosen correlations and teleportation (4 pages)	014101
P. B. Treacy	
Two roles of relativistic spin operators (4 pages)	014102
Daniel R. Terno	

Quantum information

Extracting classical correlations from a bipartite quantum system (2 pages)	014301
S. Hamieh, J. Qi, D. Siminovitch, and M. K. Ali	
Distillation of multiple copies of Bell states (3 pages)	014302
Yi-Xin Chen, Jin-Shuang Jin, and Dong Yang	
Minimal measurements of the gate fidelity of a qudit map (3 pages)	014303
E. Bagan, M. Baig, and R. Muñoz-Tapia	
Bose-Einstein condensate collapse: A comparison between theory and experiment (4 pages)	014304
C. M. Savage, N. P. Robins, and J. J. Hope	
Probabilistic teleportation of a three-particle state via three pairs of entangled particles (4 pages)	014305
Jianxing Fang, Yinsheng Lin, Shiqun Zhu, and Xianfeng Chen	
Spin-based quantum-information processing with semiconductor quantum dots and cavity QED (4 pages)	014306
Mang Feng, Irene D'Amico, Paolo Zanardi, and Fausto Rossi	
Addendum: Extracting an entangled state of $n-t$ qubits from an n -qubit entangled state after errors at t sites (4 pages)	014307
Michael Teplitsky and Julio Gea-Banacloche	
Screening of a qubit from the influence of a zero-temperature reservoir (4 pages)	014308
Radim Filip	

Matter waves

Decay of superfluid turbulence via Kelvin-wave radiation (4 pages)	015601
M. Leadbeater, D. C. Samuels, C. F. Barenghi, and C. S. Adams	
Density-functional theory of bosons in a trap (4 pages)	015602
Yeong E. Kim and Alexander L. Zubarev	

Quantum optics, physics of lasers, nonlinear optics

Magnetoelectric anisotropy of the quantum vacuum (<i>2 pages</i>)	015801
G. L. J. A. Rikken and C. Rizzo	

COMMENTS

Comment on “Canonical formalism for Lagrangians with nonlocality of finite extent” (<i>6 pages</i>)	016101
Josep Llosa	
Reply to “Comment on ‘Canonical formalism for Langrangians with nonlocality of a finite extent’ ”	
(<i>4 pages</i>)	016102
R. P. Woodard	
Comment on “Laser-assisted formation of antihydrogen” (<i>3 pages</i>)	017401
James S. Cohen	

ERRATA

Erratum: Radiative corrections to hydrogenlike ions and heavy alkali-metal atoms in a magnetic field [Phys. Rev. A 66 , 032115 (2002)] (<i>1 page</i>)	019901(E)
Igor Goidenko, Leonti Labzowsky, Günter Plunien, and Gerhard Soff	
Erratum: Dynamics of entanglement for coherent excitonic states in a system of two coupled quantum dots and cavity QED [Phys. Rev. A 65 , 042326 (2002)] (<i>1 page</i>)	019902(E)
Yu-xi Liu, Şahin Kaya Özdemir, Masato Koashi, and Nobuyuki Imoto	

Selected Abstracts from Other Physical Review Journals	xv
---	----

Cumulative Author Index	xvi
--	-----