



Minimization of a trajectory in a two-dimensional configuration space (Mueller potential) with two different algorithms. See article 108302.

PHYSICAL REVIEW LETTERS

Contents

VOLUME 87, NUMBER 10 3 September 2001

General Physics	
Localization on Short-Range Potentials in Dissipative Quantum Mechanics	100401
Akakii Melikidze	
Vortices in Trapped Superfluid Fermi Gases	100402
M. Rodriguez, G.-S. Paraoanu, and P. Törmä	
Superfluidity versus Bloch Oscillations in Confined Atomic Gases	100403
H. P. Büchler, V. B. Geshkenbein, and G. Blatter	
Finite-Temperature Simulations of the Scissors Mode in Bose-Einstein Condensed Gases	100404
B. Jackson and E. Zaremba	
Inadequacy of the Usual Galilean Transformation in Quantum Mechanics	100405
Daniel M. Greenberger	
Gravitation and Astrophysics	
On the Penrose Inequality	101101
Jörg Frauendiener	
Cosmic Microwave Background Polarization Signals from Tangled Magnetic Fields	101301
T. R. Seshadri and Kandaswamy Subramanian	
Elementary Particles and Fields	
Measurement of Branching Fractions for $B \rightarrow \pi\pi$, $K\pi$, and KK Decays	101801
K. Abe <i>et al.</i> (Belle Collaboration)	
Measurement of the Top Quark p_T Distribution	102001
T. Affolder <i>et al.</i> (CDF Collaboration)	
Nuclear Physics	
Ratios of Charged Antiparticles-to-Particles near Mid-Rapidity in Au + Au Collisions at $\sqrt{s_{NN}} = 130$ GeV	102301
B. B. Back <i>et al.</i> (PHOBOS Collaboration)	
Measurement of the High Energy Two-Body Deuteron Photodisintegration Differential Cross Section	102302
E. C. Schulte <i>et al.</i>	
Charged-Particle Pseudorapidity Density Distributions from Au + Au Collisions at $\sqrt{s_{NN}} = 130$ GeV	102303
B. B. Back <i>et al.</i> (PHOBOS Collaboration)	
Possibility to Deduce the Emission Time Sequence of Neutrons and Protons from the Neutron-Proton Correlation Function	102701
R. Ghatti, J. Helgesson, N. Colonna, B. Jakobsson, A. Anzalone, V. Bellini, L. Carlén, S. Cavallaro, L. Celano, E. De Filippo, G. D'Erasmus, D. Di Santo, E. M. Fiore, A. Fokin, M. Geraci, F. Giustolisi, A. Kuznetsov, G. Lanzaò, D. Mahboub, S. Marrone, J. Mårtensson, M. Palomba, A. Pantaleo, V. Paticchio, G. Riera, M. L. Sperduto, C. Sutura, G. Tagliente, and M. Urrata	
Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc.	
Even-Harmonic Generation due to Beyond-Born-Oppenheimer Dynamics	103901
Thomas Kreibich, Manfred Lein, Volker Engel, and E. K. U. Gross	

(Continued on Third Cover)

Contents (Continued)

Angle-Resolved Second-Harmonic Light Scattering from Colloidal Particles	103902
N. Yang, W.E. Angerer, and A.G. Yodh	
Transverse Instability of Vector Solitons and Generation of Dipole Arrays	103903
Dragomir Neshev, Wieslaw Krolikowski, Dmitry E. Pelinovsky, Glen McCarthy, and Yuri S. Kivshar	
Universality of Velocity Gradients in Forced Burgers Turbulence	104501
J��r��mie Bec	
Plasma and Beam Physics	
Production of Alfv��n Waves by a Rapidly Expanding Dense Plasma	105001
M. VanZeeland, W. Gekelman, S. Vincena, and G. Dimonte	
Condensed Matter: Structure, etc.	
Evidence for Droplet Reorientation and Interfacial Charges in a Polymer-Dispersed Liquid-Crystal Cell	105501
S.C. Sharma, L. Zhang, A.J. Tapiawala, and P.C. Jain	
Dynamical Event during Slow Crack Propagation	105502
Knut J��rgen M��l��y and Jean Schmittbuhl	
Hydrogen above Saturation at Silicon Vacancies: H-Pair Reservoirs and Metastability Sites	105503
S.B. Zhang and Howard M. Branz	
Retention of the Potential Energy of Multiply Charged Argon Ions Incident on Copper	105504
U. Kentsch, H. Tyrroff, G. Zschornack, and W. M��ller	
Liquid-Liquid Phase Transitions of Phosphorus via Constant-Pressure First-Principles Molecular Dynamics Simulations	105701
Tetsuya Morishita	
Geometry-Dependent Electrostatics near Contact Lines	106101
Tom Chou	
Measurement of the Energetics of Metal Film Growth on a Semiconductor: Ag/Si(100)-(2 � 1)	106102
D.E. Starr, J.T. Ranney, J.H. Larsen, J.E. Musgrove, and C.T. Campbell	
Self-Assembly of One-Dimensional Surface Structures: Long-Range Interactions in the Growth of Ir and Pd on W(110)	106103
Seong Jin Koh and Gert Ehrlich	
Continuum Model for Low Temperature Relaxation of Crystal Steps	106104
O. Pierre-Louis	
Dynamic Observation of an Atom-Sized Gold Wire by Phase Electron Microscopy	106105
Yoshizo Takai, Tadahiro Kawasaki, Yoshihide Kimura, Takashi Ikuta, and Ryuichi Shimizu	
Condensed Matter: Electronic Properties, etc.	
Temperature Dependence of the Kondo Resonance and Its Satellites in CeCu ₂ Si ₂	106401
F. Reinert, D. Ehm, S. Schmidt, G. Nicolay, S. H��fner, J. Kroha, O. Trovarelli, and C. Geibel	
Quantum Interference and Ballistic Transmission in Nanotube Electron Waveguides	106801
Jing Kong, Erhan Yenilmez, Thomas W. Tomblor, Woong Kim, Hongjie Dai, Robert B. Laughlin, Lei Liu, C.S. Jayanthi, and S.Y. Wu	
Characterization of Individual Threading Dislocations in GaN Using Ballistic Electron Emission Microscopy	106802
H.-J. Im, Y. Ding, J.P. Pelz, B. Heying, and J.S. Speck	
Oscillating Sign of Drag in High Landau Levels	106803
Felix von Oppen, Steven H. Simon, and Ady Stern	
Direct Observation of Spontaneous Weak Ferromagnetism in the Superconductor ErNi ₂ B ₂ C	107001
S.-M. Choi, J.W. Lynn, D. Lopez, P.L. Gammel, P.C. Canfield, and S.L. Bud'ko	
Terahertz Responses of Intrinsic Josephson Junctions in High <i>T_C</i> Superconductors	107002
H.B. Wang, P.H. Wu, and T. Yamashita	
Origin of Biquadratic Coupling in Fe/Cr(100) Superlattices	107201
J. Meersschaut, C. L'abb��, M. Rots, and S.D. Bader	
Giant Room-Temperature Magnetoresistance in Polycrystalline Zn _{0.41} Fe _{2.59} O ₄ with �-Fe ₂ O ₃ Grain Boundaries	107202
P. Chen, D.Y. Xing, Y.W. Du, J.M. Zhu, and D. Feng	

(Continued on Preceding Page)

Contents (Continued)

Effects of Disorder on Ferromagnetism in Diluted Magnetic Semiconductors	107203
Mona Berciu and R.N. Bhatt	
Electron Confinement in Surface States on a Stepped Gold Surface Revealed by Angle-Resolved Photoemission	107601
A. Mugarza, A. Mascaraque, V. Pérez-Dieste, V. Repain, S. Rousset, F.J. García de Abajo, and J.E. Ortega	
Ferromagnetic and Antiferromagnetic Fluctuations of π - <i>d</i> Itinerant Electrons Disclosed by Band-Selective NMR	107602
A. Kawamoto, K. Miyagawa, and K. Kanoda	
Interdisciplinary Physics: Biological Physics, Quantum Information, etc.	
Random Walks of Cytoskeletal Motors in Open and Closed Compartments	108101
Reinhard Lipowsky, Stefan Klumpp, and Theo M. Nieuwenhuizen	
Excitable Media in a Chaotic Flow	108301
Zoltán Neufeld	
Action-Derived Molecular Dynamics in the Study of Rare Events	108302
Daniele Passerone and Michele Parrinello	
Comments	
Comment on “Observation of Attosecond Light Localization in Higher Order Harmonic Generation”	109401
G. Tempea, A. Scrinzi, F. Krausz, and T. Brabec	
Papadogiannis <i>et al.</i> Reply	109402
N.A. Papadogiannis, B. Witzel, C. Kalpouzos, and D. Charalambidis	
Cumulative Author Index	i