



Photoemission energy versus angle plot for Bi2212 showing bilayer splitting. See article 117002.

PHYSICAL REVIEW LETTERS

Contents

VOLUME 87, NUMBER 11 10 September 2001

General Physics	
Aging in 1D Discrete Spin Models and Equivalent Systems	110201
L.R. Fontes, M. Isopi, C.M. Newman, and D.L. Stein	
Gravitation and Astrophysics	
A New Determination of G Using Two Methods	111101
T.J. Quinn, C.C. Speake, S.J. Richman, R.S. Davis, and A. Picard	
Elementary Particles and Fields	
Instantons and the $\Delta I = 1/2$ Rule	111601
N.I. Kochelev and V. Vento	
Observation of Cabibbo Suppressed $B \rightarrow D^{(*)}K^-$ Decays at Belle	111801
K. Abe <i>et al.</i> (Belle Collaboration)	
Branching Ratio Measurement of the Decay $K_L \rightarrow e^+e^-\mu^+\mu^-$	111802
A. Alavi-Harati <i>et al.</i> (KTeV Collaboration)	
Neutrino-Lepton Masses, Zee Scalars, and Muon $g - 2$	111803
Duane A. Dicus, Hong-Jian He, and John N. Ng	
Test of CPT and Lorentz Invariance from Muonium Spectroscopy	111804
V.W. Hughes, M. Grosse Perdekamp, D. Kawall, W. Liu, K. Jungmann, and G. zu Putlitz	
Nuclear Physics	
Two-Kaon Correlations in Central Pb + Pb Collisions at 158 A GeV/c	112301
I.G. Bearden <i>et al.</i> (NA44 Collaboration)	
Scanning the Quark-Gluon Plasma with Charmonium	112302
Boris Z. Kopeliovich, Alberto Polleri, and Jörg Hüfner	
Multiplicity Distribution and Spectra of Negatively Charged Hadrons in Au + Au Collisions at $\sqrt{s_{NN}} = 130$ GeV... ..	112303
C. Adler <i>et al.</i> (STAR Collaboration)	
Model-Independent Source Imaging Using Two-Pion Correlations in (2 to 8)A GeV Au + Au Collisions	112304
S.Y. Panitkin <i>et al.</i> (E895 Collaboration), D.A. Brown, and P. Danielewicz	
Rapidity Dependence of Antiproton-to-Proton Ratios in Au + Au Collisions at $\sqrt{s_{NN}} = 130$ GeV	112305
I.G. Bearden <i>et al.</i> (BRAHMS Collaboration)	
Atomic, Molecular, and Optical Physics	
Sum-Frequency Generation in Chiral Liquids near Electronic Resonance	113001
M.A. Belkin, S.H. Han, X. Wei, and Y.R. Shen	
Quantal Density Functional Theory of Excited States	113002
Viraht Sahni, Lou Massa, Ranbir Singh, and Marlina Slamet	
Superresolution of Pulsed Multiphoton Raman Transitions	113601
F.S. Cataliotti, R. Scheunemann, T.W. Hänsch, and M. Weitz	

(Continued on Third Cover)

Contents (Continued)

Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc.

Spatial Mode Control of Radiation Generated by Frequency Difference in Periodically Poled Crystals	113901
G. Giusfredi, D. Mazzotti, P. Cancio, and P. De Natale	
Dynamics of Classical Wave Scattering by Small Obstacles	113902
Gerrit E.W. Bauer, Mauro S. Ferreira, and Cees P.A. Wapenaar	
Anomalous Diffusion and Dynamical Localization in Polygonal Billiards	114101
Tomaž Prosen and Marko Žnidarič	
Asymmetric Kinks: Stabilization by Entropic Forces	114102
G. Costantini and F. Marchesoni	
Dynamic Patterns and Self-Knotting of a Driven Hanging Chain	114301
Andrew Belmonte, Michael J. Shelley, Shaden T. Eldakar, and Chris H. Wiggins	
Optimal Symplectic Approximation of Hamiltonian Flows	114302
Béla Erdélyi and Martin Berz	

Plasma and Beam Physics

Observation of Zero Current Density in the Core of JET Discharges with Lower Hybrid Heating and Current Drive	115001
N.C. Hawkes, B.C. Stratton, T. Tala, C.D. Challis, G. Conway, R. DeAngelis, C. Giroud, J. Hobirk, E. Joffrin, P. Lomas, P. Lotte, J. Mailloux, D. Mazon, E. Rachlew, S. Reyes-Cortes, E. Solano, and K-D. Zastrow	
Normal Modes of 2D Finite Clusters in Complex Plasmas	115002
A. Melzer, M. Klindworth, and A. Piel	
Using Fermi Statistics to Create Strongly Coupled Ion Plasmas in Atom Traps	115003
M.S. Murillo	
Ion Separation due to Magnetic Field Penetration into a Multispecies Plasma	115004
A. Weingarten, R. Arad, Y. Maron, and A. Fruchtman	

Condensed Matter: Structure, etc.

Time Scaling Regimes in Aggregation of Magnetic Dipolar Particles: Scattering Dichroism Results	115501
Sonia Melle, Miguel A. Rubio, and Gerald G. Fuller	
Effect of Phonon Scattering by Surface Roughness on the Universal Thermal Conductance	115502
D.H. Santamore and M.C. Cross	
Vacancy Dynamics and Reorganization on Bromine-Etched Si(100)-(2 × 1) Surfaces	115503
Cari F. Herrmann and John J. Boland	
Phase-Field Formulation for Quantitative Modeling of Alloy Solidification	115701
Alain Karma	
Elastoplastic Contact between Randomly Rough Surfaces	116101
B.N.J. Persson	
Thermally Activated Stripe Reconstruction Induced by O on Nb (011)	116102
M. Ondrejcek, R.S. Appleton, W. Swiech, V.L. Petrova, and C.P. Flynn	

Condensed Matter: Electronic Properties, etc.

Shot Noise for Resonant Cooper Pair Tunneling	116601
Mahn-Soo Choi, Francesco Plastina, and Rosario Fazio	
Measurements of the Complex Conductivity of Nb _x Si _{1-x} Alloys on the Insulating Side of the Metal-Insulator Transition	116602
Erik Helgren, George Grüner, Martin R. Ciofalo, David V. Baxter, and John P. Carini	
Universal Conductance Distributions in the Crossover between Diffusive and Localization Regimes	116603
A. García-Martín and J.J. Sáenz	
Orbital Ferromagnetism and Anomalous Hall Effect in Antiferromagnets on the Distorted fcc Lattice	116801
Ryuichi Shindou and Naoto Nagaosa	
Tunable Adsorption on Carbon Nanotubes	116802
O. Gülseren, T. Yildirim, and S. Ciraci	

(Continued on Preceding Page)

Contents (Continued)

Thermal Activation between Landau Levels in the Organic Superconductor β'' -(BEDT-TTF) ₂ SF ₅ CH ₂ CF ₂ SO ₃	117001
M.-S. Nam, A. Ardavan, J.A. Symington, J. Singleton, N. Harrison, C.H. Mielke, J.A. Schlueter, R.W. Winter, and G.L. Gard	
Doubling of the Bands in Overdoped Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} : Evidence for <i>c</i> -Axis Bilayer Coupling	117002
Y.-D. Chuang, A.D. Gromko, A. Fedorov, Y. Aiura, K. Oka, Yoichi Ando, H. Eisaki, S.I. Uchida, and D.S. Dessau	
Bethe Ansatz Results for the 4 <i>f</i> -Electron Spectra of a Degenerate Anderson Model	117601
A.A. Zvyagin	
Interdisciplinary Physics: Biological Physics, Quantum Information, etc.	
Quantum Communication between <i>N</i> Partners and Bell's Inequalities	117901
Valerio Scarani and Nicolas Gisin	
Clock Synchronization with Dispersion Cancellation	117902
V. Giovannetti, S. Lloyd, L. Maccone, and F.N.C. Wong	
Subdiffusion-Limited A+A Reactions	118301
S.B. Yuste and Katja Lindenberg	
Theoretical Description of Teaching-Learning Processes: A Multidisciplinary Approach	118701
Clelia M. Bordogna and Ezequiel V. Albano	
Comments	
Comment on "Period Doubling of a Torus near the Ferroelectric Phase Transition of a KH ₂ PO ₄ Crystal"	118901
Jeong-Ho Yeo and Jong-Jean Kim	
Shin and Kwun Reply	118902
Jong Cheol Shin and Sook-II Kwun	
Comment on "Noncausal Time Response in Frustrated Total Internal Reflection?"	119101
W. Luis Mochán and Vera L. Brudny	
Carey <i>et al.</i> Reply	119102
John J. Carey, Justyna Zawadzka, Dino A. Jaroszynski, and Klaas Wynne	
Comment on "Effect of Potential Energy Distribution on the Melting of Clusters"	119301
F. Calvo, J.P.K. Doye, and D.J. Wales	
Comment on "Extremely Low Frequency Plasmons in Metallic Mesostructures"	119701
Rodger M. Walser, Alaka P. Valanju, and Prashant M. Valanju	
Errata	
Erratum: Quantum Transport through Ballistic Cavities: Soft vs Hard Quantum Chaos [Phys. Rev. Lett. 84 , 5504 (2000)]	119901
Bodo Huckestein, Roland Ketzmerick, and Caio H. Lewenkopf	