

CCD image of "betatron" x rays from a 28.5-GeV electron beam propagating through a less-dense plasma. The highly relativistic beam creates an ion channel as it expels electrons from the plasma; the channel in turn causes oscillations in the beam envelope, leading to the emission of radiation. This experiment, carried out at SLAC, is the first to show that an ion channel can act in this manner to generate radiation in the keV range. See article 135004.

PHYSICAL REVIEW LETTERS

Contents

VOLUME 88, NUMBER 13 1 April 2002

General Physics

Invariant Information and Quantum State Estimation 130401
J. Řeháček and Z. Hradil

Density Modulations of Bose-Einstein Condensates via Laser-Induced Interactions 130402
S. Giovanazzi, D. O'Dell, and G. Kurizki

Monte Carlo Tests of Stochastic Loewner Evolution Predictions for the 2D Self-Avoiding Walk 130601
Tom Kennedy

Gravitation and Astrophysics

Time-Varying α and Particle Physics 131301
Tom Banks, Michael Dine, and Michael Douglas

Elementary Particles and Fields

Semileptonic $b \rightarrow u$ Decays: Lepton Invariant Mass Spectrum 131801
Andrzej Czarnecki and Kirill Melnikov

Nuclear Physics

Ω, J/ψ, and ψ' Production in Nuclear Collisions and Quark-Gluon-Plasma Hadronization 132301
M. I. Gorenstein, K. A. Bugaev, and M. Gaździcki

Charged and Superconducting Vortices in Dense Quark Matter 132302
David B. Kaplan and Sanjay Reddy

Kinetic Equation for Gluons in the Background Gauge of QCD 132303
Q. Wang, K. Redlich, H. Stöcker, and W. Greiner

Atomic, Molecular, and Optical Physics

Photoionization Microscopy 133001
C. Nicole, H. L. Offerhaus, M. J. J. Vrakking, F. Lépine, and Ch. Bordas

Direct Probe of the Bent and Linear Geometries of the Core-Excited Renner-Teller Pair States by Means of the Triple-Ion-Coincidence Momentum Imaging Technique 133002
Y. Muramatsu, K. Ueda, N. Saito, H. Chiba, M. Lavollée, A. Czasch, T. Weber, O. Jagutzki, H. Schmidt-Böcking, R. Moshammer, U. Becker, K. Kubozuka, and I. Koyano

Alternate Gradient Focusing and Deceleration of a Molecular Beam 133003
Hendrick L. Bethlem, André J. A. van Roij, Rienk T. Jongma, and Gerard Meijer

Macrodimers: Ultralong Range Rydberg Molecules 133004
Christophe Boisseau, Ionel Simbotin, and Robin Côté

Transmission of 3 keV Ne^{7+} Ions through Nanocapillaries Etched in Polymer Foils: Evidence for Capillary Guiding 133201
N. Stolterfoht, J.-H. Bremer, V. Hoffmann, R. Hellhammer, D. Fink, A. Petrov, and B. Sulik

(Continued on Third Cover)

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PRL 88 (13), 130401–139904, 1 April 2002 (240 total pages)

Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc.

Controlling the Carrier-Envelope Phase of Ultrashort Light Pulses with Optical Parametric Amplifiers 133901
Andrius Baltuška, Takao Fuji, and Takayoshi Kobayashi

Spatiotemporal Optical Modulation Instability of Coherent Light in Noninstantaneous Nonlinear Media 133902
Ming-Feng Shih, Chien-Chung Jeng, Fan-Wen Sheu, and Chao-Yin Lin

Brillouin Propagation Modes in Optical Lattices: Interpretation in Terms of Nonconventional Stochastic Resonance 133903
L. Sanchez-Palencia, F.-R. Carminati, M. Schiavoni, F. Renzoni, and G. Grynberg

Convective and Absolute Eckhaus Instability Leading to Modulated Waves in a Finite Box 134501
Nicolas Garnier, Arnaud Chiffaudel, and François Daviaud

Analytical Model of Nonlinear, Single-Mode, Classical Rayleigh-Taylor Instability at Arbitrary Atwood Numbers ... 134502
V. N. Goncharov

Universal Behavior of Entrainment due to Coherent Structures in Turbulent Shear Flow 134503
Rama Govindarajan

Plasma and Beam Physics

Observation of Shear-Wave Mach Cones in a 2D Dusty-Plasma Crystal 135001
V. Nosenko, J. Goree, Z. W. Ma, and A. Piel

Macroscopic Evidence of Soliton Formation in Multiterawatt Laser-Plasma Interaction 135002
M. Borghesi, S. Bulanov, D. H. Campbell, R. J. Clarke, T. Zh. Esirkepov, M. Galimberti, L. A. Gizzi, A. J. MacKinnon, N. M. Naumova, F. Pegoraro, H. Ruhl, A. Schiavi, and O. Willi

Light Filaments in Air for Ultraviolet and Infrared Wavelengths 135003
A. Couairon and L. Bergé

X-Ray Emission from Betatron Motion in a Plasma Wiggler 135004
Shuoqin Wang, C. E. Clayton, B. E. Blue, E. S. Dodd, K. A. Marsh, W. B. Mori, C. Joshi, S. Lee, P. Muggli, T. Katsouleas, F. J. Decker, M. J. Hogan, R. H. Iverson, P. Raimondi, D. Walz, R. Siemann, and R. Assmann

Condensed Matter: Structure, etc.

Structure-Dependent Vibrational Lifetimes of Hydrogen in Silicon 135501
G. Lüpke, X. Zhang, B. Sun, A. Fraser, N. H. Tolk, and L. C. Feldman

Osmium has the Lowest Experimentally Determined Compressibility 135701
Hyunchae Cynn, John E. Klepeis, Choong-Shik Yoo, and David A. Young

Energetics and Vibrational States for Hydrogen on Pt(111) 136101
Ş. C. Bădescu, P. Salo, T. Ala-Nissila, S. C. Ying, K. Jacobi, Y. Wang, K. Bedürftig, and G. Ertl

Geometry of the Valence Transition Induced Surface Reconstruction of Sm(0001) 136102
E. Lundgren, J. N. Andersen, R. Nyholm, X. Torrelles, J. Rius, A. Delin, A. Grechnev, O. Eriksson, C. Konvicka, M. Schmid, and P. Varga

Condensed Matter: Electronic Properties, etc.

Lattice-Spin Mechanism in Colossal Magnetoresistive Manganites 136401
J. A. Vergés, V. Martín-Mayor, and L. Brey

Effects of a Parallel Magnetic Field on the Metal-Insulator Transition in a Dilute Two-Dimensional Electron System 136402
Kevin Eng, X. G. Feng, Dragana Popović, and S. Washburn

Thermopower of an Aharonov-Bohm Interferometer: Theoretical Studies of Quantum Dots in the Kondo Regime ... 136601
Tae-Suk Kim and S. Hershfield

Dephasing Times in Closed Quantum Dots 136801
Eli Eisenberg, Karsten Held, and Boris L. Altshuler

Photoinduced Changes of Reflectivity in Single Crystals of $YBa_2Cu_3O_{6.5}$ (Ortho II) 137001
G. P. Segre, N. Gedik, J. Orenstein, D. A. Bonn, Ruixing Liang, and W. N. Hardy

Evidence for Static Magnetism in the Vortex Cores of Ortho-II $YBa_2Cu_3O_{6.50}$ 137002
R. I. Miller, R. F. Kiefl, J. H. Brewer, J. E. Sonier, J. Chakhalian, S. Dunsiger, G. D. Morris, A. N. Price, D. A. Bonn, W. H. Hardy, and R. Liang

(Continued on Preceding Page)

Common Energy Scale for Magnetism and Superconductivity in Underdoped Cuprates: A Muon Spin Resonance Investigation of $(Ca_xLa_{1-x})(Ba_{1.75-x}La_{0.25+x})Cu_3O_y$ 137003
Amit Kanigel, Amit Keren, Yaakov Eckstein, Arkady Knizhnik, James S. Lord, and Alex Amato
Critical Dynamics of Gauge Systems: Spontaneous Vortex Formation in 2D Superconductors 137004
G. J. Stephens, Luís M. A. Bettencourt, and W. H. Zurek
Electrical Resistivity Anisotropy from Self-Organized One Dimensionality in High-Temperature Superconductors 137005
Yoichi Ando, Kouji Segawa, Seiki Komiya, and A. N. Lavrov
Noncollinear Ferromagnetism in (III,Mn)V Semiconductors 137201
John Schliemann and A. H. MacDonald
Effect of Optical Spin Injection on Ferromagnetically Coupled Mn Spins in the III-V Magnetic Alloy Semiconductor (Ga, Mn)As 137202
A. Oiwa, Y. Mitsumori, R. Moriya, T. Słupinski, and H. Munekata
Direct Measurement of the Spin Hamiltonian and Observation of Condensation of Magnons in the 2D Frustrated Quantum Magnet Cs_2CuCl_4 137203
R. Coldea, D. A. Tennant, K. Habicht, P. Smeibidl, C. Wolters, and Z. Tylczynski
Collapse of Valence Transition in $Yb_{0.8}Y_{0.2}InCu_4$: Pressure-Induced Weak Ferromagnetism 137204
A. Mitsuda, T. Goto, K. Yoshimura, W. Zhang, N. Sato, K. Kosuge, and H. Wada
Fluorescence Decay Time of Single Semiconductor Nanocrystals 137401
Germar Schlegel, Jolanta Bohnenberger, Inga Potapova, and Alf Mews

Interdisciplinary Physics: Biological Physics, Quantum Information, etc.

Implementation of Quantum Search Algorithm using Classical Fourier Optics 137901
N. Bhattacharya, H. B. van Linden van den Heuvell, and R. J. C. Spreeuw
Experimental Realization of Quantum Games on a Quantum Computer 137902
Jiangfeng Du, Hui Li, Xiaodong Xu, Mingjun Shi, Jihui Wu, Xianyi Zhou, and Rongdian Han
Role of Protein-Water Hydrogen Bond Dynamics in the Protein Dynamical Transition 138101
M. Tarek and D. J. Tobias
Helfrich Repulsion and Dynamical Phase Separation of Multicomponent Lipid Bilayers 138102
Stefanie Marx, Jörg Schilling, Erich Sackmann, and Robijn Bruinsma
Synchronization of Noise-Induced Bursts in Noncoupled Sensory Neurons 138103
Alexander B. Neiman and David F. Russell
Experimental and Numerical Studies of Noise-Induced Coherent Patterns in a Subexcitable System 138301
L. Q. Zhou, X. Jia, and Q. Ouyang
Universal Topological Properties of Two-Dimensional Trivalent Cellular Patterns 138302
K. Y. Szeto, Xiujun Fu, and W. Y. Tam
Truncation of Power Law Behavior in "Scale-Free" Network Models due to Information Filtering 138701
Stefano Mossa, Marc Barthélémy, H. Eugene Stanley, and Luís A. Nunes Amaral

Comments

Comment on "Kondo Resonance in a Mesoscopic Ring Coupled to a Quantum Dot: Exact Results for the Aharonov-Bohm-Casher Effects" 139701
Ian Affleck and Pascal Simon
Eckle *et al.* Reply 139702
Hans-Peter Eckle, Henrik Johannesson, and Charles A. Stafford
Comment on "Strong Vortex Liquid Correlation from Multiterminal Measurements on Untwinned $YBa_2Cu_3O_{7-\delta}$ Single Crystals" 139703
B. Maiorov, A. V. Silhanek, F. de la Cruz, and E. Osquiguil
Rydh and Rapp Reply 139704
A. Rydh and Ö. Rapp

Errata

Erratum: Single Hole Motion in $LaMnO_3$ [Phys. Rev. Lett. **87**, 047204 (2001)] 139901
Wei-Guo Yin, Hai-Qing Lin, and Chang-De Gong

(Continued on Preceding Page)

Contents (Continued)

Erratum: From Computation to Black Holes and Space-Time Foam [Phys. Rev. Lett. **86**, 2946 (2001)] 139902
Y. Jack Ng
Erratum: Effective Lorentz Force due to Small-Angle Impurity Scattering: Magnetotransport in High-T_c Superconductors [Phys. Rev. Lett. **86**, 4652 (2001)] 139903
C. M. Varma and Elihu Abrahams
Erratum: Bose-Einstein Condensation in Trapped Dipolar Gases [Phys. Rev. Lett. **85**, 1791 (2000)] 139904
L. Santos, G. V. Shlyapnikov, P. Zoller, and M. Lewenstein

Cumulative Author Index i