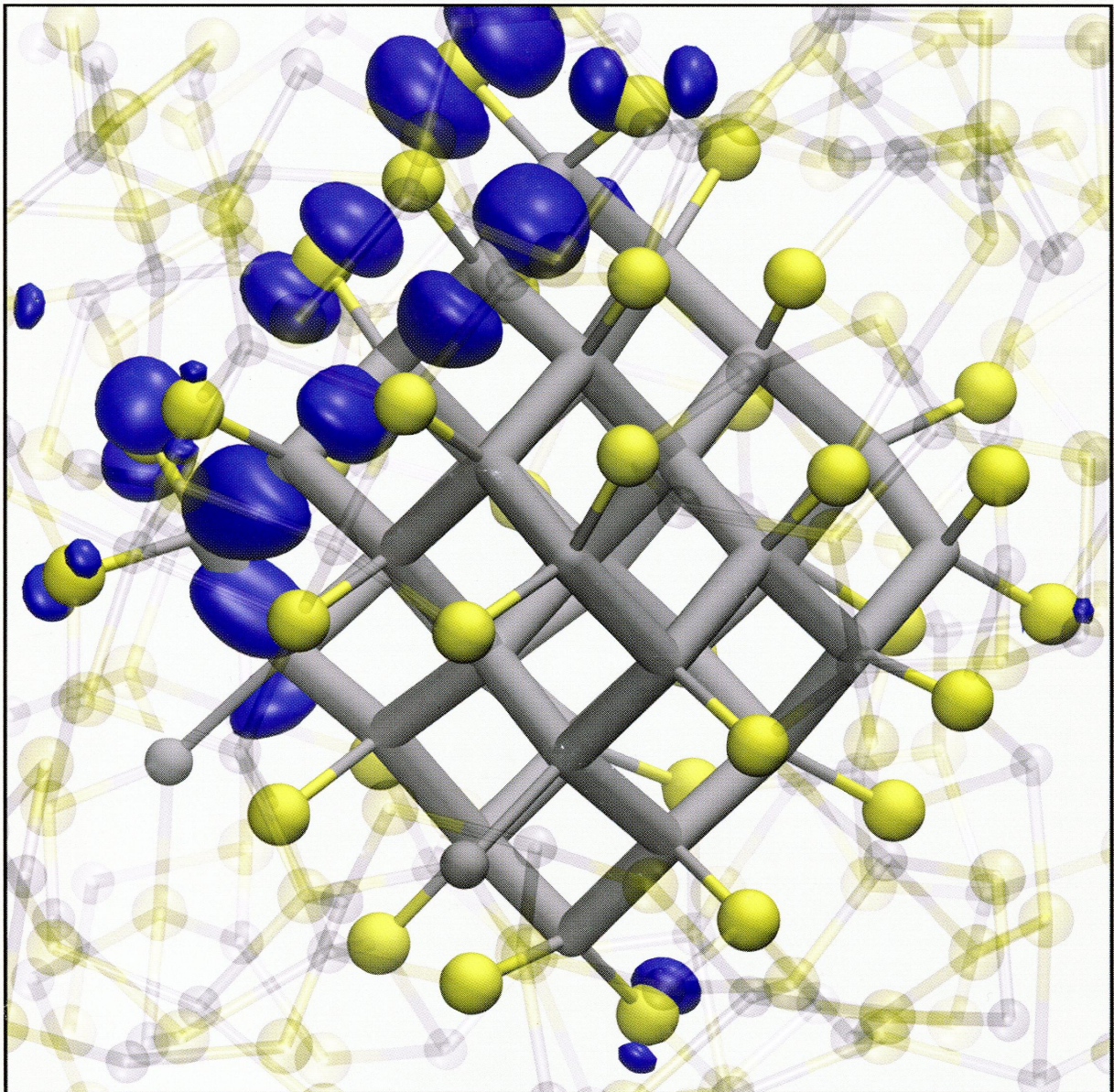


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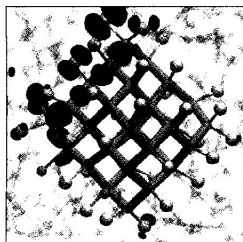
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Ball and stick representation of a Si nanoparticle (gray rods) embedded in an α -ZnS matrix with sulfur atoms (yellow spheres) capping its surface. The highest occupied orbital (whose square modulus is shown in blue) is localized on the surface layer and composed of S lone pairs. [S. Wippermann *et al.*, Phys. Rev. Lett. **112**, 106801 (2014)]

PHYSICAL REVIEW LETTERS™

Contents

Articles published 8 March–14 March 2014

VOLUME 112, NUMBER 10

14 March 2014

General Physics: Statistical and Quantum Mechanics, Quantum Information, etc.

	Fundamental Monogamy Relation between Contextuality and Nonlocality	100401
	Paweł Kurzyński, Adán Cabello, and Dagomir Kaszlikowski	
	Can Observed Randomness Be Certified to Be Fully Intrinsic?	100402
	Chirag Dhara, Gonzalo de la Torre, and Antonio Acín	
☞	Experimental Violation of Multipartite Bell Inequalities with Trapped Ions	100403
	B. P. Lanyon, M. Zwerger, P. Jurcevic, C. Hempel, W. Dür, H. J. Briegel, R. Blatt, and C. F. Roos	
☞	Local Observation of Pair Condensation in a Fermi Gas at Unitarity	100404
	M. G. Lingham, K. Fenech, S. Hoinka, and C. J. Vale	
	One-Dimensional Transport of Bosons between Weakly Linked Reservoirs	100601
	D. P. Simpson, D. M. Gangardt, I. V. Lerner, and P. Krüger	
	Derivation of Hydrodynamics from the Hamiltonian Description of Particle Systems	100602
	Shin-ichi Sasa	
Gravitation and Astrophysics		
	Systematic Parameter Errors in Inspiring Neutron Star Binaries	101101
	Marc Favata	
☞	Upper Limit on a Stochastic Background of Gravitational Waves from Seismic Measurements in the Range 0.05–1 Hz	101102
	Michael Coughlin and Jan Harms	
	Hypercharged Dark Matter and Direct Detection as a Probe of Reheating	101301
	Brian Feldstein, Masahiro Ibe, and Tsutomu T. Yanagida	
Elementary Particles and Fields		
	$B_{s,d} \rightarrow \ell^+ \ell^-$ in the Standard Model with Reduced Theoretical Uncertainty	101801
	Christoph Bobeth, Martin Gorbahn, Thomas Hermann, Mikolaj Misiak, Emmanuel Stamou, and Matthias Steinhauser	
	Production of $hhjj$ at the LHC	101802
	Matthew J. Dolan, Christoph Englert, Nicolas Greiner, and Michael Spannowsky	
	Next-to-Leading Order QCD Factorization for Semi-Inclusive Deep Inelastic Scattering at Twist 4	102001
	Zhong-Bo Kang, Enke Wang, Xin-Nian Wang, and Hongxi Xing	
☞	Universality and the QCD Anderson Transition	102002
	Matteo Giordano, Tamás G. Kovács, and Ferenc Pittler	
Nuclear Physics		
☞	<i>Ab Initio</i> Calculation of the Spectrum and Structure of ^{16}O	102501
	Evgeny Epelbaum, Hermann Krebs, Timo A. Lähde, Dean Lee, Ulf-G. Meißner, and Gautam Rupak	

(Continued Inside)







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Contents (Continued)

β Decay of ^{38}Ca : Sensitive test of Isospin Symmetry-Breaking Corrections from Mirror Superallowed $0^+ \rightarrow 0^+$ Transitions	102502
H. I. Park, J. C. Hardy, V. E. Jacob, M. Bencomo, L. Chen, V. Horvat, N. Nica, B. T. Roeder, E. Simmons, R. E. Tribble, and I. S. Towner	
Atomic, Molecular, and Optical Physics	
Extracting Phase and Amplitude Modifications of Laser-Coupled Fano Resonances	103001
Andreas Kaldun, Christian Ott, Alexander Blättermann, Martin Laux, Kristina Meyer, Thomas Ding, Andreas Fischer, and Thomas Pfeifer	
 Terahertz-Induced Field-Free Orientation of Rotationally Excited Molecules	103002
K. N. Egodapitiya, Sha Li, and R. R. Jones	
$m\alpha^7$ -Order Corrections in the Hydrogen Molecular Ions and Antiprotonic Helium	103003
Vladimir I. Korobov, Laurent Hilico, and Jean-Philippe Karr	
Three-Body Interacting Bosons in Free Space	103201
D. S. Petrov	
Relativistic Transfer Ionization and the Breit Interaction	103202
O. Yu. Andreev, E. A. Mistonova, and A. B. Voitkiv	
Electronic Friction Dominates Hydrogen Hot-Atom Relaxation on Pd(100)	103203
M. Blanco-Rey, J. I. Juaristi, R. Díez Muiño, H. F. Busnengo, G. J. Kroes, and M. Alducin	
Spin Squeezing in a Rydberg Lattice Clock	103601
L. I. R. Gil, R. Mukherjee, E. M. Bridge, M. P. A. Jones, and T. Pohl	
 Entangling Different-Color Photons via Time-Resolved Measurement and Active Feed Forward	103602
Tian-Ming Zhao, Han Zhang, Jian Yang, Zi-Ru Sang, Xiao Jiang, Xiao-Hui Bao, and Jian-Wei Pan	
 Nonlinear Mode Coupling and Synchronization of a Vacuum-Trapped Nanoparticle	103603
Jan Gieseler, Marko Spasenović, Lukas Novotny, and Romain Quidant	
Supersensitive Polarization Microscopy Using NOON States of Light	103604
Yonatan Israel, Shamir Rosen, and Yaron Silberberg	
Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc.	
Front Pinning and Localized States Analogues in Long-Delayed Bistable Systems	103901
Francesco Marino, Giovanni Giacomelli, and Stephane Barland	
Cavity-Enhanced High-Harmonic Generation with Spatially Tailored Driving Fields	103902
I. Pupeza, M. Högner, J. Weitenberg, S. Holzberger, D. Esser, T. Eidam, J. Limpert, A. Tünnermann, E. Fill, and V. S. Yakovlev	
Taylor Particle Dispersion during Transition to Fully Developed Two-Dimensional Turbulence	104501
H. Xia, N. Francois, H. Punzmann, and M. Shats	
 Virtual Seafloor Reduces Internal Wave Generation by Tidal Flow	104502
Likun Zhang and Harry L. Swinney	
Plasma and Beam Physics	
Electrostatic Ion Cyclotron and Ion Plasma Waves in a Symmetric Pair-Ion Plasma Cylinder	105001
M. Kono, J. Vranjes, and N. Batool	
Resolving Ultrafast Heating of Dense Cryogenic Hydrogen	105002
U. Zastra, P. Sperling, M. Harmand, A. Becker, T. Bornath, R. Bredow, S. Dzarzhytski, T. Fennel, L. B. Fletcher, E. Förster, S. Göde, G. Gregori, V. Hilbert, D. Hochhaus, B. Holst, T. Laarmann, H. J. Lee, T. Ma, J. P. Mithen, R. Mitzner, C. D. Murphy, M. Nakatsutsumi, P. Neumayer, A. Przystawik, S. Roling, M. Schulz, B. Siemer, S. Skruszewicz, J. Tiggesbäumker, S. Toleikis, T. Tschentscher, T. White, M. Wöstmann, H. Zacharias, T. Döppner, S. H. Glenzer, and R. Redmer	
Novel Characterization of Capsule X-Ray Drive at the National Ignition Facility	105003
S. A. MacLaren, M. B. Schneider, K. Widmann, J. H. Hammer, B. E. Yoxall, J. D. Moody, P. M. Bell, L. R. Benedetti, D. K. Bradley, M. J. Edwards, T. M. Guymer, D. E. Hinkel, W. W. Hsing, M. L. Kervin, N. B. Meezan, A. S. Moore, and J. E. Ralph	

(Continued on Preceding Page)



Selected for a Viewpoint in *Physics*. Please visit <http://physics.aps.org/>.

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Contents (Continued)

Magnetic Reconnection in Plasma under Inertial Confinement Fusion Conditions Driven by Heat Flux Effects in Ohm's Law	105004
A. S. Joglekar, A. G. R. Thomas, W. Fox, and A. Bhattacharjee	
Condensed Matter: Structure, etc.	
Microscopic Origin and Universality Classes of the Efimov Three-Body Parameter	105301
Pascal Naidon, Shimpei Endo, and Masahito Ueda	
Entropically Stabilized Dislocations	105501
Woo Kyun Kim and Ellad B. Tadmor	
Scaling Theory of Two-Phase Dendritic Growth in Undercooled Ternary Melts	105502
Silvère Akamatsu, Sabine Bottin-Rousseau, Gabriel Faivre, and Efim A. Brener	
Soft Modes and Nonaffine Rearrangements in the Inherent Structures of Supercooled Liquids	105503
Majid Mosayebi, Patrick Ilg, Asaph Widmer-Cooper, and Emanuela Del Gado	
Kinetics of Nanobubble Generation Around Overheated Nanoparticles	105701
Julien Lombard, Thierry Biben, and Samy Merabia	
Physical Adsorption: Theory of van der Waals Interactions between Particles and Clean Surfaces	106101
Jianmin Tao and Andrew M. Rappe	
Stabilization Mechanism of ZnO Nanoparticles by Fe Doping	106102
Jianping Xiao, Agnieszka Kuc, Thomas Frauenheim, and Thomas Heine	
Condensed Matter: Electronic Properties, etc.	
New Class of Topological Superconductors Protected by Magnetic Group Symmetries	106401
Chen Fang, Matthew J. Gilbert, and B. Andrei Bernevig	
Spin Transfer of Quantum Information between Majorana Modes and a Resonator	106402
Alexey A. Kovalev, Amrit De, and Kirill Shtengel	
One-Dimensional Fermions with neither Luttinger-Liquid nor Fermi-Liquid Behavior	106403
A. V. Rozhkov	
Charge Disproportionation without Charge Transfer in the Rare-Earth-Element Nickelates as a Possible Mechanism for the Metal-Insulator Transition	106404
Steve Johnston, Anamitra Mukherjee, Ilya Efimov, Mona Berciu, and George A. Sawatzky	
Exotic Magnetic Order in the Orbital-Selective Mott Regime of Multiorbital Systems	106405
Julián Rincón, Adriana Moreo, Gonzalo Alvarez, and Elbio Dagotto	
Doping a Correlated Band Insulator: A New Route to Half-Metallic Behavior	106406
Arti Garg, H. R. Krishnamurthy, and Mohit Randeria	
Theoretical Prediction and Spectroscopic Fingerprints of an Orbital Transition in CeCu_2Si_2	106407
L. V. Pourovskii, P. Hansmann, M. Ferrero, and A. Georges	
Universal Entanglement Crossover of Coupled Quantum Wires	106601
Romain Vasseur, Jesper Lykke Jacobsen, and Hubert Saleur	
Spin Pumping and Inverse Spin Hall Effect in Platinum: The Essential Role of Spin-Memory Loss at Metallic Interfaces	106602
J.-C. Rojas-Sánchez, N. Reyren, P. Laczowski, W. Savero, J.-P. Attané, C. Deranlot, M. Jamet, J.-M. George, L. Vila, and H. Jaffrès	
Solar Nanocomposites with Complementary Charge Extraction Pathways for Electrons and Holes: Si Embedded in ZnS	106801
Stefan Wippermann, Márton Vörös, Adam Gali, Francois Gygi, Gergely T. Zimanyi, and Giulia Galli	
Valley-Polarized Quantum Anomalous Hall Effect in Silicene	106802
Hui Pan, Zhenshan Li, Cheng-Cheng Liu, Guobao Zhu, Zhenhua Qiao, and Yugui Yao	
Measurement of an Enhanced Superconducting Phase and a Pronounced Anisotropy of the Energy Gap of a Strained FeSe Single Layer in $\text{FeSe}/\text{Nb}:\text{SrTiO}_3/\text{KTaO}_3$ Heterostructures Using Photoemission Spectroscopy	107001
R. Peng, X. P. Shen, X. Xie, H. C. Xu, S. Y. Tan, M. Xia, T. Zhang, H. Y. Cao, X. G. Gong, J. P. Hu, B. P. Xie, and D. L. Feng	

(Continued on Preceding Page)



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Contents (Continued)

Detection of Time-Reversal Symmetry Breaking in the Noncentrosymmetric Superconductor Re_6Zr Using Muon-Spin Spectroscopy	107002
R. P. Singh, A. D. Hillier, B. Mazidian, J. Quintanilla, J. F. Annett, D. McK. Paul, G. Balakrishnan, and M. R. Lees	
Direct Observation of Magnetic Metastability in Individual Iron Nanoparticles	107201
Ana Balan, Peter M. Derlet, Arantxa Fraile Rodríguez, Joachim Bansmann, Rocio Yanes, Ulrich Nowak, Armin Kleibert, and Frithjof Nolting	
Nonfrustrated Interlayer Order and its Relevance to the Bose-Einstein Condensation of Magnons in $\text{BaCuSi}_2\text{O}_6$	107202
Vladimir V. Mazurenko, Maria V. Valentyuk, Raivo Stern, and Alexander A. Tsirlin	
Electronic Excitations of a Magnetic Impurity State in the Diluted Magnetic Semiconductor $(\text{Ga,Mn})\text{As}$	107203
M. Kobayashi, H. Niwa, Y. Takeda, A. Fujimori, Y. Senba, H. Ohashi, A. Tanaka, S. Ohya, P. N. Hai, M. Tanaka, Y. Harada, and M. Oshima	
High Resolution Coherent Population Trapping on a Single Hole Spin in a Semiconductor Quantum Dot	107401
Julien Houel, Jonathan H. Prechtel, Andreas V. Kuhlmann, Daniel Brunner, Christopher E. Kuklewicz, Brian D. Gerardot, Nick G. Stoltz, Pierre M. Petroff, and Richard J. Warburton	
Exciton Dynamics in Carbon Nanotubes: From the Luttinger Liquid to Harmonic Oscillators	107402
M. C. Sweeney and J. D. Eaves	
Radiative Topological States in Resonant Photonic Crystals	107403
A. V. Poshakinskiy, A. N. Poddubny, L. Piloizzi, and E. L. Ivchenko	
Soft Matter, Biological, and Interdisciplinary Physics	
Nanoparticle Diffusion in Polymer Nanocomposites	108301
Jagannathan T. Kalathi, Umi Yamamoto, Kenneth S. Schweizer, Gary S. Grest, and Sanat K. Kumar	
Slow Relaxation and Aging Phenomena at the Nanoscale in Granular Materials	108302
V. Y. Zaitsev, V. E. Gusev, V. Tournat, and P. Richard	
Comments	
Comment on “Uniqueness of the Equation for Quantum State Vector Collapse”	108901
Lajos Diósi	
Gao and Müller Reply	109401
Li Gao and Rolf Müller	
Errata	
Publisher’s Note: Chemical-Potential-Dependent Gap Opening at the Dirac Surface States of Bi_2Se_3 Induced by Aggregated Substitutional Cr Atoms [Phys. Rev. Lett. 112, 056801 (2014)]	109901
Cui-Zu Chang, Peizhe Tang, Yi-Lin Wang, Xiao Feng, Kang Li, Zuocheng Zhang, Yayu Wang, Li-Li Wang, Xi Chen, Chaoxing Liu, Wenhui Duan, Ke He, Xu-Cun Ma, and Qi-Kun Xue	



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