NEWS & COMMENT

U.S. Power Outage Won't Dim ITER
Advisory Panel Seeks Cost-Saving Solutions

Does Rochester Without Math Add Up?
Research Gets Big Boost One Year After Kobe Earthquake

AMS Adds Realism to Chemical Risk Assessment
Human Genetics: New U.K. Committee Draws Fire

RESEARCH NEWS

Closing In On Superconductivity
Blue Laser Race Turns Red-Hot
Social Status Sculpts Activity of Crayfish Neurons
Choreographing the Bacterial Cell Cycle

DEPARTMENTS

THIS WEEK IN SCIENCE

LETTERS

Alabama and Evolution: S. F. Gottlieb and S. Fox
• Wild Dogs in the Serengeti: M. L. East and H. Hofer
• Resistance to Mutagenesis: G. M. Woodwell; V. Morell
• Extracellular Protein Kinases: Y. H. Ehrlich
• Downsizing at DOE Facilities: D. W. Reicher
• Comet Hunting: Discipline and Serendipity: J. O. Burns

Life at the Top: Animals Pay the High Price of Dominance
Interfering With Atoms to Clear a Path for Lasers
New Tumor Suppressor Found in Pancreatic Cancer

PERSPECTIVES

Microscopic Tunneling Spectroscopy on High-Temperature Superconductors
K. Kitazawa

Checkpoints Take the Next Step
A. M. Carr

Cellular Microbiology Emerging
P. Cossart, P. Boquet, S. Normark, R. Rapuoli

ARTICLES

Covalent Fullerene Chemistry
F. Diederich and C. Thilgen

Toward an Understanding of the Correlates of Protective Immunity to HIV Infection
B. F. Haynes, G. Pantaleo, A. S. Fauci

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Random Samples

Highly Cited Women in Science
• Comet Could Be the Century's Brightest
• California Connectedness
• Bragging About Crystals
• Chinese Math Puzzle
• Malaria Made Visible With X-rays
• What's in a Domain Name

BOOK REVIEWS

Plasma Physics, Introduction to Plasma Physics, and Laser Physics, reviewed by D. Montgomery
• Other Books of Interest
• Vignettes
• Books Received

PRODUCTS & MATERIALS

SCIENCE'S NEXT WAVE

Climbing the Corporate Ladder—Using Scientific Skills

Downloaded from http://science.sciencemag.org on April 26, 2017
Scanning superconducting quantum interface device microscope image of the magnetic field trapped in thin-film rings of a thallium-based cuprate high-temperature superconductor. The lower right control ring is in the zero flux quantum state, the center ring is in the one-half flux quantum state, and the other two rings are in the one flux quantum state. This result provides strong support for d-wave pairing symmetry in high-temperature cuprate superconductors. See page 329 and News story on page 288. [Image: Cliff Pickover]

RESEARCH ARTICLE

Pairing Symmetry in Single-Layer Tetragonal Ti$_1$Ba$_2$CuO$_{x_0}$ Superconductors

REPORTS

Recent Changes in Eastern Mediterranean Deep Waters
W. Roether, B. B. Manca, B. Klein, D. Bregant, D. Georgopoulos, V. Beitzel, V. Kovačević, A. Luchetta

Chromophores with Strong Heterocyclic Acceptors: A Poled Polymer with a Large Electro-Optic Coefficient

Chaos and the Shapes of Elliptical Galaxies
D. Merritt

Mineralization of Chlorofluorocarbons and Aromatization of Saturated Fluorocarbons by a Convenient Thermal Process
J. Burdeniuc and R. H. Crabtree

Design of a Monomeric 23-Residue Polypeptide with Defined Tertiary Structure
M. D. Struthers, R. P. Cheng, B. Imperiali

Assembly of a Ribonucleoprotein Catalyst by Tertiary Structure Capture
K. M. Weeks and T. R. Cech

C3d of Complement as a Molecular Adjuvant: Bridging Innate and Acquired Immunity

DPC4, A Candidate Tumor Suppressor Gene at Human Chromosome 18q21.1

rad-Dependent Response of the chk1-Encoded Protein Kinase at the DNA Damage Checkpoint
N. C. Walworth and R. Bernards

Regulation of RAD53 by the ATM-Like Kinases MEC1 and TEL1 in Yeast Cell Cycle Checkpoint Pathways
Y. Sanchez, B. A. Desany, W. J. Jones, Q. Liu, B. Wang, S. J. Elledge

Bone Morphogenetic Protein–1: The Type I Procollagen C–Proteinase
E. Kessler, K. Takahara, L. Biniaminov, M. Brusel, D. S. Greenspan

Role of β-Arrestin in Mediating Agonist-Promoted G Protein–Coupled Receptor Internalization
S. S. G. Ferguson, W. E. Downey III, A.-M. Colapietro, L. S. Barak, L. Ménard, M. G. Caron

The Effect of Social Experience on Serotonergic Modulation of the Escape Circuit of Crayfish
S.-R. Yeh, R. A. Fricke, D. H. Edwards

Zinc-Induced Collapse of Augmented Inhibition by GABA in a Temporal Lobe Epilepsy Model
E. H. Buhl, T. S. Otis, I. Mody

TECHNICAL COMMENTS

Analog Computational Power
H. T. Siegelmann

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