This Week in Science

Achievable New Year's Resolutions

Science and the Press: J. E. BISHOP; D. E. KOSHLAND, JR. ■ Coverage of the "Gallo Case": J. CREWSDON; J. COHEN

1992 preview: The year in funding, big projects, and science policy

Conservation Biology in the Fast Lane

Soviet Environment Slips Down the Agenda

Can There Be a Better Grade of "Pork?"

Plant Biotechnology Explored in Indianapolis

NRC Faults Science Behind Ozone Regs

Briefings: Twinkle Twinkle Little LED ■ Where HUGOsing? ■ Invertebrates Need Love Too ■ Open Freezer at NCI

Microbes From 20,000 Feet Under the Sea ■ Superbugs in Waiting: Some Cautionary Tales

A Fall Harvest of Earth Science in San Francisco: Loma Prieta's Long Reach Was a Matter of Mirrors ■ Are Earthquakes a Ticking Clock for Los Angeles? ■ A Conundrum at Steens Mountain

Catching the Rhythm of The Bacterial Twist

Twin Study Links Genes to Homosexuality

Anything Goes at the Cell Biology Meeting: New Evidence Found for a Nuclear Matrix ■ Fruit Fly Learning Research Mushrooms ■ New Clues to How Bacteria Get Into Cells

Mechanisms of Transcriptional Timing in Drosophila: C. S. THUMMEL

America's Children: Economic Perspectives and Policy Options: V. R. FUCHS AND D. M. REKLI

Fermi Surfaces, Fermi Liquids, and High-Temperature Superconductors: W. E. PUCKETT, H. KRAKAUER, R. E. COHEN, D. J. SINGH


SCIENCE (ISSN 0036-8075) is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484460) paid at Washington, DC, and additional mailing offices. Copyright © 1991 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $87 (47 allocated to subscription). Domestic institutional subscription (51 issues): $195. Foreign postage extra: Mexico, Caribbean (surface mail) $50; Other countries (air assist delivery) $95. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request. GST #1254 68122. Change of address: allow 8 weeks, giving old and new addresses and 11-digit account number. Postmaster: Send change of address to Science, P.O. Box 2033, Marion, OH 43305—2033. Single copy sales: $6.00 per issue prepaid includes surface postage, Guide to Biotechnology Products and Instruments, $20. Bulk rates upon request. Authorization to photocopy material for internal or personal use under licenses granted within the fair use provisions of the Copyright Act is granted to AAAS libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $1 per copy plus $.10 per page is paid directly to CCC, 27 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/91 $1 + .10. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.

The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objectives are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to improve the effectiveness of science in the promotion of human welfare, to advance education in science, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.
The calculated surfaces in momentum space ("Fermi surfaces") for the charge carriers in the high-temperature superconductor YBa$_2$Cu$_3$O$_7$. Charge carriers can be electron-like or hole-like; blue indicates low-velocity, high-mass carriers, and red indicates high-velocity, low-mass carriers. This Fermi surface, first calculated theoretically, has recently been confirmed by several experimental spectroscopies. See page 46. [Image by R. E. Cohen with AVS 3.0 software; image printed on a Kodak XL7700 at the Naval Research Laboratory Connection Machine Facility]
Science 255 (5040), 7-97.