7 This Week in Science

Editorial

9 Achievable New Year's Resolutions

Letters

10 Science and the Press: J. E. Bishop; D. E. Koslund, Jr. • Coverage of the "Gallo Case": J. Crewdson; J. Cohen

ScienceScope

19 1992 preview: The year in funding, big projects, and science policy

News & Comment

20 Conservation Biology in the Fast Lane
22 Soviet Environment Slips Down the Agenda
24 Can There Be a Better Grade of "Pork"?
25 Plant Biotechnology Explored in Indianapolis
26 NRC Faults Science Behind Ozone Regs
27 Briefings: Twinkle Twinkle Little LED • Where HUGOing? • Invertebrates Need Love Too • Open Freezer at NCI

Research News

28 Microbes From 20,000 Feet Under the Sea • Superbugs in Waiting: Some Cautionary Tales
30 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
32 Catching the Rhythm of The Bacterial Twist
33 Twin Study Links Genes to Homosexuality
34 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

Perspective

39 Mechanisms of Transcriptional Timing in Drosophila: C. S. Thummel

Articles

41 America's Children: Economic Perspectives and Policy Options: V. R. Fuchs and D. M. Reklis
46 Fermi Surfaces, Fermi Liquids, and High-Temperature Superconductors: W. E. Pickett, H. Krakauer, R. E. Cohen, D. J. Singh
The calculated surfaces in momentum space ("Fermi surfaces") for the charge carriers in the high-temperature superconductor YBa$_2$Cu$_3$O$_y$. 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]
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