This Week in Science

Priority One: Rescue the Environment


Paleoanthropology Gets Physical ■ Racemization Dating: Great Expectations

Hearing on Lab Vandalism ■ Old Law Puts a New Wrinkle in Fraud Probes ■ Science Indicators: Healthy... For Now

The Microchip Microbe Hunters ■ New Lightest Aerogel Is Nothing to Look At ■ Puzzling Out the Tectonic Plates ■ Concerns Raised About Mouse Models for AIDS

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Painting the Phase Space Portrait of an Integrable Dynamical System: S. Coffey, A. Depriit, E. Depriit, L. Healy

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COVER  Graphical representation of the motion of satellite orbits in phase space (the space whose dimensions are position and momentum). Each point fixes the orbital eccentricity and argument of perigee; color bands correspond to constant energy levels. Rendered by contour "painting" on a massively parallel processor, the plot reveals a startling configuration of equilibria spawned by pitchfork and saddle node bifurcations. See page 833. [Computer graphics generated on a Thinking Machines Corporation CM-2 by Etienne Deprit and Liam Healy, Naval Research Laboratory, Washington, DC; photographic image by Mark Stucky]

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