POLICY FORUM

Science Policy: The Candidates’ Response

NEWS & COMMENT

Searching for Markers on the AIDS Trail
Exploring Other Surrogate Markers

Dustup in the Bone Pile: Academics v. Collectors

Peering Through a Lens, Sharply

Who’s Who Among Science Advisers

Study Casts Doubt on Hiroshima Data

NASA Urged to Pump Up Its First ‘A’

Pinatubo Fails to Deepen the Ozone Hole

Mortality: Overturning Received Wisdom

Chemists Cluster in Chicago to Confer on Cagey Compounds

An Everyman’s Free-Electron Laser?

Dictyostelium Researchers Expect Gene Bonanza

Earth Gains a Retinue of Mini-Asteroids

PERSPECTIVE

New Ideas for Guiding the Evolution of a Quantum System

S. A. Rice

ARTICLES

Macroscopic Quantum Effects in Nanometer-Scale Magnets

D. D. Awschalom, D. P. DiVincenzo, J. F. Smyth

The Age and Size of the Universe

S. van den Bergh

E2F: A Link Between the Rb Tumor Suppressor Protein and Viral Oncoproteins

J. R. Nevins

RESEARCH ARTICLES

An Instability in Neutron Stars at Birth

A. Burrows and B. A. Fryxel
Representation of the entropy distribution in a nascent neutron star about 20 milliseconds after the collapsing core of its parent star stiffens and bounces. The shocked region experiences hydrodynamic instabilities that violate spherical symmetry and that may be central to the eventual understanding of supernovae and pulsars.

See page 430. The entropy values span the spectrum from purple through blue and red, with the highest values represented by red; the black core shows the inner dense stable region. [Image: Adam Burrows and Bruce A. Fryxell]
Science 258 (5081), 377-494.