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SPECIAL SECTION

Large Scale Measurements

NEWS REPORTS

Turning a Keen Eye on the Stars • A Military Navigation System Might Probe Lofty "Weather" • Cosmologists Search the Universe For a Dubious Panacea

ARTICLES

The Hubble Constant
J. P. Huchra

LIGO: The Laser Interferometer Gravitational-Wave Observatory

Global Tectonics and Space Geodesy
R. G. Gordon and S. Stein

Measured Trends in Stratospheric Ozone
R. Stolarski, R. Bojkov, L. Bishop, C. Zerefos, J. Staelelin, J. Jawodny
Illustration of one site in the proposed Laser Interferometer Gravitational-Wave Observatory (LIGO). The LIGO facilities will consist of two such interferometers located at widely dispersed sites; scientists hope LIGO will be able to detect gravitational waves emanating from collisions of black holes and neutron stars. See page 325. A special section in this issue of Science focuses on large scale measurements; see the Editorial and pages 316 to 349. [Illustration: Ruth Sofair Ketler]

RESEARCH ARTICLE

Allosteric Effects of Nucleotide Cofactors on Escherichia coli Rep Helicase–DNA Binding
I. Wong and T. M. Lohman

REPORTS

40Ar/39Ar Dating of the Brunhes-Matuyama Geomagnetic Field Reversal
A. K. Baksi, V. Hsu, M. O. McWilliams, E. Farrar

Recognition of Paleobiocenochicals by a Combined Molecular Sulfur and Isotope Geochemical Approach

Contact Electrification and Adhesion Between Dissimilar Materials
R. G. Horn and D. T. Smith

An Efficient Antibody-Catalyzed Aminocyclation Reaction
J. R. Jacobsen, J. R. Prudent, L. Kochersperger, S. Yonkovich, P. G. Schultz

Identification of a Naturally Occurring Transforming Variant of the p65 Subunit of NF-kB

Calcium-Regulated Phosphorylation Within the Leucine Zipper of C/EBPβ
M. Wegner, Z. Cao, M. G. Rosenfeld

Alternative Forms of Max as Enhancers or Suppressors of Myc-Ras Cotransformation
T. P. Mäkelä, P. J. Koskinen, I. Västrik, K. Alitalo

Nucleoid Condensation in Escherichia coli That Express a Chlamydial Histone Homolog
C. E. Barry III, S. F. Hayes, T. Hackstadt

Reciprocal Regulation of Adipogenesis by Myc and C/EBPα
S. O. Freytag and T. J. Geddes

Cell Cycle–Regulated Binding of c-Abl Tyrosine Kinase to DNA
E. T. Kipariss and J. Y. J. Wang

Appearance of Water Channels in Xenopus Oocytes Expressing Red Cell CHIP28 Protein
G. M. Preston, T. P. Carroll, W. B. Guggino, P. Agre

333 Wide regions of deformation associated with plate boundaries

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Science 256 (5055), 289-390.