1756
Glimpse of a glueball

1771 & 1801
Mapping masers

NEWS & COMMENT
R&D Impact: A Numbers Game? 1748
Tech Funding: If U.S. Bows Out, States May Come Up Short 1749
Less Hype, More Biology Needed for Gene Therapy 1751
Clinton Holds First AIDS Summit 1752
Probe Takes a Fatal Plunge at Jupiter 1752
Post–Cold War Science Thrives in the Heart of Siberia 1753
Weapons Researchers Come in From the Cold 1754
Fusion Advocates Scramble for Scraps 1755

RESEARCH NEWS
Mastering Nature’s Strong Force 1756
Catching the Strong Force in a Coarser Net 1757
Chernobyl’s Thyroid Cancer Toll 1758
Just Another Billion-Sun Black Hole 1759
Materials Scientists Make Contact in Boston 1760
Can Nuclear Waste Keep Yucca Mountain Dry—and Safe? 1761
Plutonium Under Glass 1762

C. Gotor and L. C. Romero • Heso-no-O: A Gift 1763
K. Moriwaki, S. Isda, M. Kinoshita; C. Bharucha; J. J. Gormley

DEPARTMENTS
THIS WEEK IN SCIENCE 1737
EDITORIAL 1739
LETTERS 1741

REPORTS
Polymer Photovoltaic Cells: Enhanced Efficiencies via a Network of Internal Donor-Acceptor Heterojunctions 1789
G. Yu, J. Gao, J. C. Hummelen, F. Wudl, A. J. Heeger
Solution-Liquid-Solid Growth of Crystalline III-V Semiconductors: An Analogy to Vapor-Liquid-Solid Growth 1791

PERSPECTIVES
Supernova Maser Emission Y. Fukui 1771
The Molecular Biology of Rice K. Shimamoto 1772
Mechanisms of Gene Activation S. Buratowski 1773
Ethylene Sensors: How Perceptive! A. Theologis 1774

RESEARCH ARTICLES
Multiple TAFq Directing Synergistic Activation of Transcription F. Sauer, S. K. Hansen, R. Tjian 1783

BOOK REVIEWS
Impact Jupiter and The Great Comet Crash, reviewed by P. R. Weissman • Stream Ecology, S. G. Fisher • Books Received • Vignettes • Publishers’ Addresses 1857

PRODUCTS & MATERIALS 1862
Specialized mouth of a male moth (Gluphisia septentrionalis). The gaping orifice serves for the intake of massive amounts of fluid at puddles of water from which the moth extracts sodium. The ion is transmitted to the female at mating and eventually to the eggs. The grid is presumed to guard against silt intake. Magnification ×420. See page 1816. [Electron micrograph: Maria Eisner]

AAAS Board of Directors

Francisco J. Ayala
Retiring President, Chairman
Rita R. Colwell
President
Jane Lubchenko
President-elect
William A. Lester, Jr.
Simon A. Levin
Michael J. Novacek

Cover
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools** Visit the online version of this article to access the personalization and article tools: [http://science.sciencemag.org/content/270/5243](http://science.sciencemag.org/content/270/5243)

**Permissions** Obtain information about reproducing this article: [http://www.sciencemag.org/about/permissions.dtl](http://www.sciencemag.org/about/permissions.dtl)