

People and things

On 17 May, a cooperation agreement between CERN and Colombia was signed by Clemente Forero (left), Director of Colombia's Institute for the Development of Science and Technology, and CERN Director General Carlo Rubbia.



1993 American Physical Society awards

The 1993 American Physical Society awards, bestowed at several APS meetings, include several in particle physics.

Mary K. Gaillard of Berkeley receives the J.J. Sakurai Prize for Theoretical Particle Physics for her contributions to phenomenology and theory, in particular for her work with the late Ben Lee and others applying QCD to K meson mixing and decays

Successful LEP startup

Thanks to a major programme of magnet realignment, and improved orbit measurement systems, CERN's 27-kilometre LEP electron-positron collider began 1993 operations in fine form, with luminosities climbing fast and reliable physics conditions quickly achieved. This was despite several kilometres of the machine having been refitted in preparation for higher energy operation. The machine now uses a 90°/60° betatron phase combination, and an encouraging early achievement was 26% beam polarization.

VIP groundbreaking for Fermilab's Main Injector (June, page 10). Left to right - Fermilab Director John Peoples, Representative Denis Hastert, Senator Carol Mosely-Brown, Senator Paul Simon, and Director of the Department of Energy's Office of High Energy and Nuclear Physics Wilmot Hess



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TRIUMF Laboratory, (Canada)
M. K. Craddock

and to the bound states of charmed quarks.

John Blewett receives the Robert R. Wilson Prize for Achievement in the Physics of Particle Accelerators for his many contributions, beginning in the 1930s, to accelerator physics and technology. These include the first indirect observation of synchrotron radiation, the first applications of alternating gradient focusing to linear accelerators, and to many developments in the design and construction of accelerators and storage rings.

David N. Schramm receives the Julius Edgar Lilienfeld prize for his contributions to nuclear astrophysics and his communications skills (already published).

Robert Palmer, Nicholas Samios and Ralph Shutt receive the W.K.H. Panofsky Prize for the leadership in the omega-minus discovery at Brookhaven in 1964 (already published).



Alexander Alexandrovich Pomansky 1932-1993

The prominent Russian physicist Alexander Alexandrovich Pomansky died on 9 April in the village of Neutrino in the Baksan valley, North Caucasus.

At the Lebedev Institutes and then at the Institute for Nuclear Research of the Russian Academy of Sciences, he made key contributions to cosmic ray and neutrino physics and to astrophysics. One of the pioneers of radiochemical gallium-germanium and lithium-beryllium methods of solar neutrino detection, he is also widely known for his work on double beta decay and other rare processes.

Pomansky devoted almost 30 years to the INR Baksan Neutrino Observatory, and was its head from its foundation in the mid-1960s till his death.

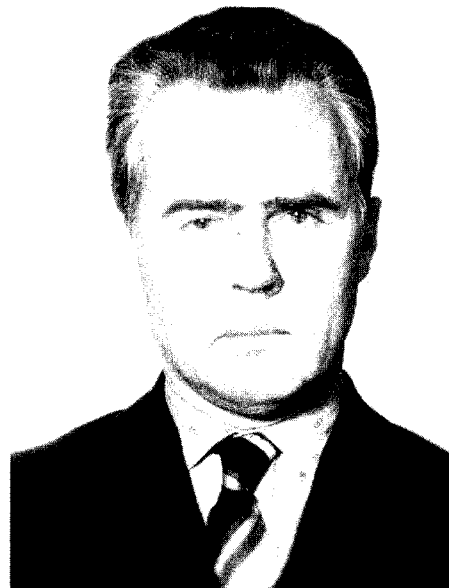
An active organizer of international neutrino meetings, his kindness, energy, openness and devotion to science won him many friends.

Meetings

An International Conference on Non-Accelerator Particle Physics (ICNAPP), organized by the Indian Institute of Astrophysics, Bangalore,

In April, a 'Recent Advances in the Superworld' meeting at the Houston Advanced Research Center (HARC), sponsored by HARC in collaboration with the International Centre for Scientific Culture/World Laboratory, focused on the latest advances in Grand Unified Theories. HARC Astroparticle Physics Group Head Dimitri Nanopoulos (left) spoke on Density Matrix Mechanics ideas which extend the power of quantum mechanics, providing a link between quantum mechanics and gravity. ICSC/WL head Antonino Zichichi (right) gave the status of supersymmetric predictions in the context of coupling constant unification.

Alexander Alexandrovich Pomansky 1932-1993



from 2-9 January 1994 will focus on several exciting areas of this research and its significance for astronomy. Some proposed topics are : Physics Beyond the Standard Model, Neutrino Physics, UHE Gamma Rays and Cosmic Rays, Search for New Forces, Fundamental Quantum Mechanics, Dark Matter Searches and New Instrumentation for Astroparticle Physics. Convenor is Ramanath Cowsik, Indian Institute of Astrophysics, Bangalore 560 034, India. Fax : 91-812-533358, e-mail : icnapp@iiap.ernet.in or icnapp@tifrvax.bitnet

Dark matter

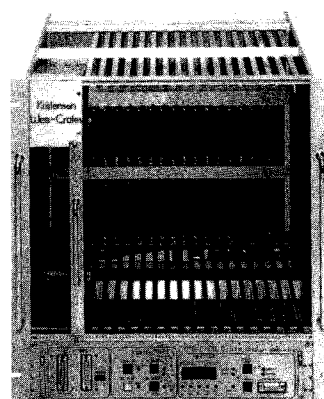
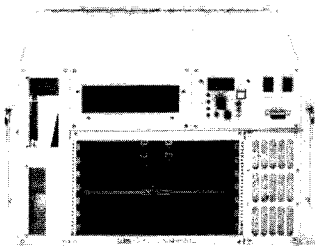
An "International School on Cosmological Dark Matter" will be held in Valencia from October 4-8, organized in collaboration with the Universities of Menendez y Pelayo, Valencia and IFIC/C.S.I.C. In addition to some pedagogical review lectures, the meeting will also include more specialized talks on frontline research topics.

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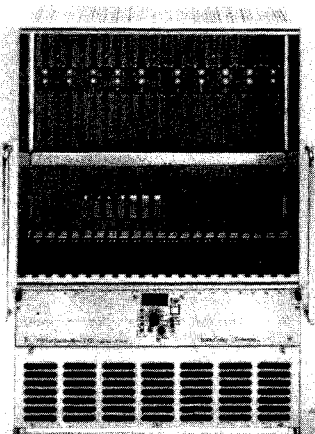


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Associate Scientist

Fermi National Accelerator Laboratory

Fermilab in Batavia, Illinois, is home to the Tevatron colliding-beams accelerator and advanced research in particle physics at the highest energies. The DZero collider experiment seeks a Scientist with a PhD in High Energy Physics and at least 3 years post-doctoral research experience to take part in a broad experimental program.

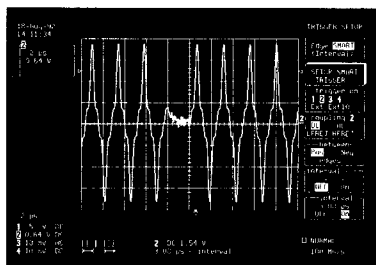
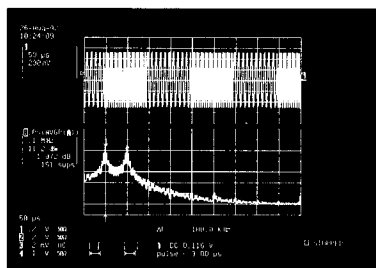
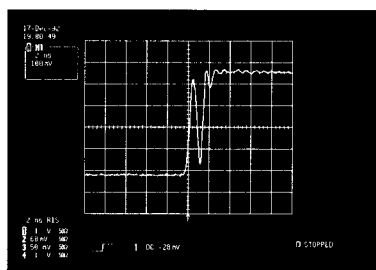
The incumbent will participate in data-taking, analysis, and new detector development and testing for upgrades of the experiment. Success in this position requires exceptional knowledge and skill in all areas of modern high energy physics experimentation. Good written and oral English communication skills, as well as knowledge of Fortran and VMS or UNIX platforms, are needed. Leadership experience in past experimental work would be beneficial.

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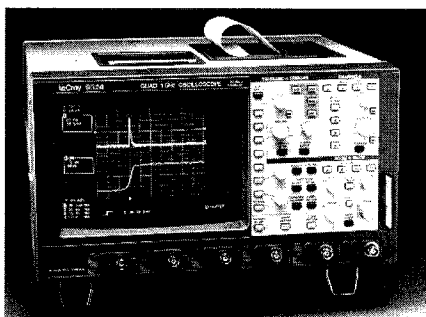


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The Organizers are A. Perez and J. W. F. Valle (U. de Valencia/IFIC-CSIC), and the Scientific Secretary F. de Campos, e-mail: darkm@vm.ci.uv.es or 16444::darkm Depto. de Fisica Teorica, Univ. de Valencia 46100 Burjassot, Valencia, Spain Fax. (34 6)364.2345 Telex 61071

The Scientific Programme will consist of invited lectures and some selected seminars by participants together with discussion sessions on: 1. The Standard Big Bang Cosmology and Inflation; 2. Observational Evidence for Dark Matter; 3. The Standard Electroweak Model; 4. Beyond the Standard Model; 5. Dark Matter and Particle Physics; 6. Neutrino Astrophysics and Cosmology; 7. Underground Experiments; 8. Dark Matter and Structure Formation; 9. Cosmological Phase Transitions; 10. Future Perspectives.

Spin 93

From 20-24 September, the International Spin-93 Workshop will be held under the sponsorship of the Institute for High Energy Physics (Protvino, near Moscow), and the International Committee for High Energy Spin Physics. Information from nurushev@ihep.su or mochalov@ihep.su or ufimtsev@ihep.su.

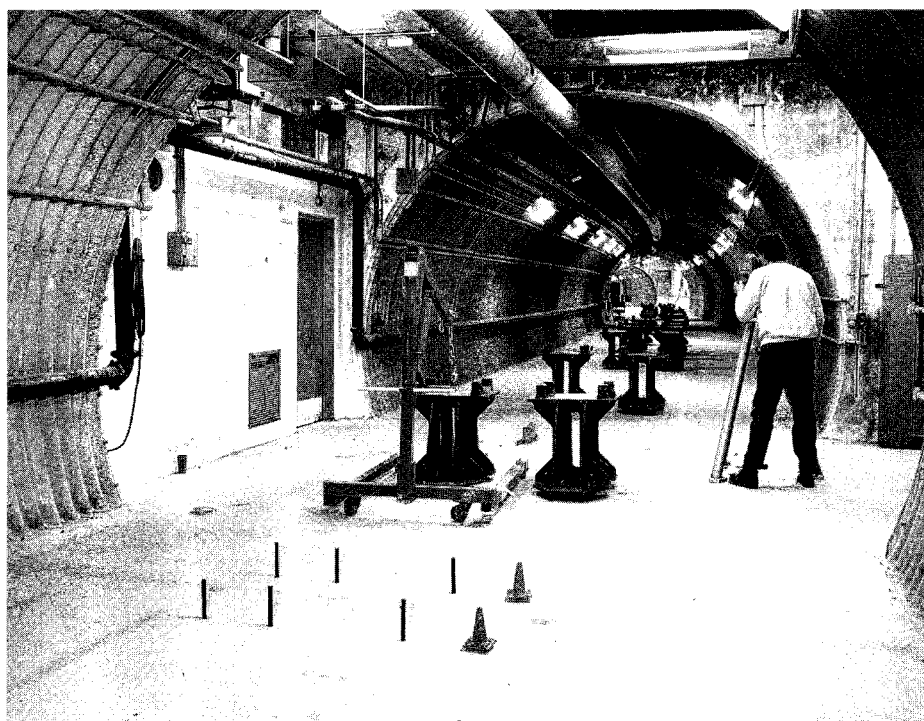
Newton revisited

Published by Cambridge University Press is Richard Westfall's 'The Life of Isaac Newton' (ISBN 0 521 43252 9), a abridgement of same author's 1980 classic 'Never at Rest'. With many mathematical details omitted, this fine story brings Newton's career to a wider audience, tracing the erratic progress of this enigmatic

megamath.

Newton's introduction to the thrust and parry of scientific priority left him so disillusioned that he retired to his Cambridge bolt-hole.

Twenty years later, with comets in the sky, Edmond Halley suspected Newton might know a thing or two about celestial motion, but was amazed to find he knew everything. Equally amazed, Newton discovered the world wanted to know, and embarked on his Principia opus. Newtonian mechanics finally exorcized the ghost of geocentrism and Newton took his rightful place as an intellectual giant.

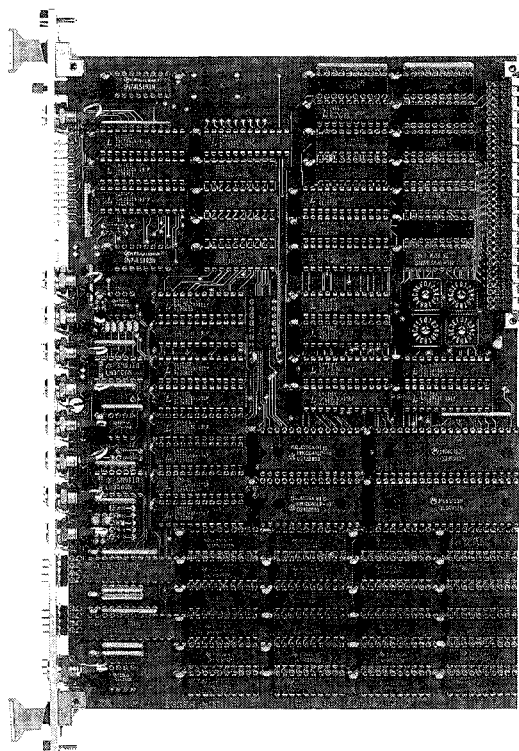


Getting ready for magnet installation in Brookhaven's RHIC heavy ion collider tunnel. First standard superconducting arc dipoles and quadrupoles manufactured by Grumman Aerospace are scheduled for delivery this year, with installation commencing mid-1994.

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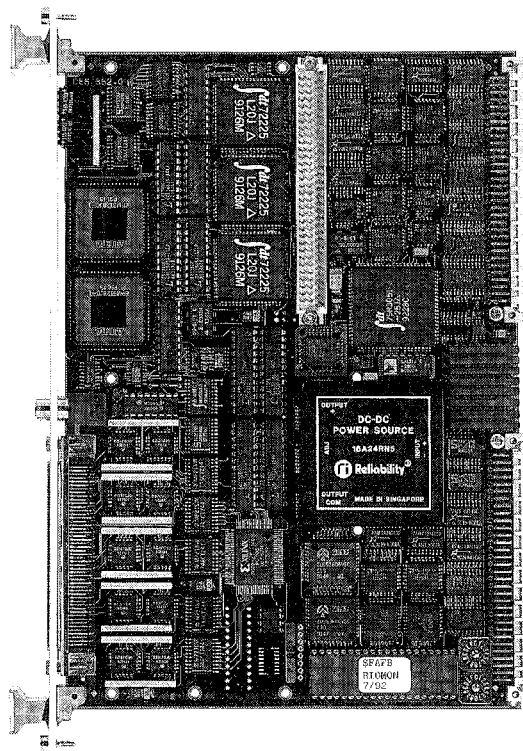
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