

Nouvelles brèves

Médaille Dirac

Lors du récent symposium sur les perspectives en physique des particules au Centre international de physique théorique de Trieste, Abdus Salam, directeur de ce Centre, a présidé la première cérémonie de remise des médailles Dirac de l'Institut. Bien que son arrivée ait été prévue, Yakov Zeldovich de l'Institut de recherche spatiale de Moscou n'a pas pu venir pour recevoir sa médaille. Edward Witten de Princeton a reçu seul sa médaille d'or des mains d'Antonino Zichichi au nom du Comité des prix.

Distinctions de l'Institut de physique du Royaume-Uni

Le prix et la médaille Guthrie de l'Institut de physique du Royaume-Uni revient cette année à sir Denys Wilkinson pour ses nombreuses contributions à la physique nucléaire. Le prix Glazebrook de l'Institut revient au directeur du Laboratoire

Rutherford-Appleton, Geoff Manning, pour ses contributions aux applications de physique au Laboratoire, particulièrement en physique des hautes énergies, en informatique et en ce qui concerne la source de neutrons de spallation. Le prix Rutherford va à Alan Astbury (Canada), ancien porte-parole associé de l'expérience UA1 au CERN.

Philip Anderson (Princeton) et Abdus Salam (Imperial College de Londres et Centre international de physique théorique de Trieste) ont été élus membres honoraires de l'Institut.

Prix tiers monde

Le prix de physique 1985 de l'Académie des sciences du tiers monde a été décerné à E.C.G. Sudarshan (Inde) pour ses contributions fondamentales à la compréhension de la force nucléaire faible, en particulier pour ses travaux avec R. Marshak sur la théorie qui tient compte de la structure de parité



Aleksander Mikhailovich Baldin, directeur du Laboratoire des hautes énergies de l'Institut unifié pour la recherche nucléaire de Doubna (URSS), a récemment été félicité par ses amis et collègues à l'occasion de son soixantième anniversaire.

(symétrie gauche/droite) de cette force.

Le prix de mathématiques de l'Académie revient à Liao Shan Tao (Chine) pour ses contributions fondamentales aux transformations périodiques des sphères et à la théorie qualitative de la dynamique.

Le président de l'Académie des sciences du tiers monde est Abdus Salam.



Ed Witten, de Princeton (au centre), admire sa médaille Dirac décernée par le Centre international de physique théorique de Trieste (ICTP). A ses côtés, Abdus Salam, directeur de l'ICTP (à droite), et Antonino Zichichi, qui a remis la médaille. L'autre médaillé, Yakov Zeldovich, de l'Institut de recherche spatiale de Moscou, n'a pas pu venir assister à la cérémonie de remise des prix, bien que son arrivée ait été prévue.

Opportunities in High Energy Physics Facilities

Brookhaven National Laboratory

The Alternating Gradient Synchrotron (AGS) Department of Brookhaven National Laboratory (BNL) is responsible for the operation of the 200 MeV Linac, the polarized proton injector, the 30 GeV AGS, and the Heavy Ion transfer line which will be commissioned soon. Under construction is a 1 GeV Booster Accelerator which will increase the AGS proton beam intensity and extend the AGS mass range to all heavy ion species. Funding is currently being sought to build a Relativistic Heavy Ion Collider.

Brookhaven National Laboratory is also a major participant in national research and development efforts for the Superconducting Super Collider. About 450 research and technical staff are assigned to the High Energy Physics Facilities organization at BNL.

We invite applications or nominations for the following staff openings:

Scientist-Engineer/Administrative

This is an opportunity for a PhD-level scientist-engineer experienced in accelerator physics research and development, with managerial experience. The responsibilities include technical oversight of AGS research and development efforts, machine upgrades, and reliability improvements, including a main role in the planning and execution of associated administrative functions. The position will report to the Chairman of the AGS Department.



Ultra High Vacuum Specialist

This is an opportunity for a PhD-level scientist-mechanical engineer with the necessary technical and managerial skills to head a vacuum group of approximately 20 individuals. The responsibilities include the research and development, construction and operation of the vacuum systems in an expanding AGS accelerator complex.

Chief Mechanical Engineer/AGS Booster Project

This is an opportunity for a masters-level mechanical engineer to be responsible for the design, construction and installation of mechanical components and systems for the AGS Booster Accelerator. The Chief Mechanical Engineer will supervise a group of about 30 engineers, designers and technicians. Experience with high vacuum systems, large magnets and electromechanical devices, support structures, survey and alignment and radio-frequency cavities is required. Experience with particle accelerators is desirable.

Responses should be sent by June 15, 1986, to: J. Herbert, AGS Search Committee, Bldg. 911B, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, New York 11973. Equal Opportunity Employer m/f.

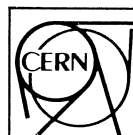
RESEARCH SCIENTISTS EXPERIMENTAL HIGH ENERGY PHYSICS

Supercomputer Computations Research Institute Florida State University

The Supercomputer Computations Research Institute of the Florida State University is seeking qualified candidates for 2 full time permanent research positions in experimental high energy physics. Preference will be given to scientists with strong software orientation willing to investigate the use of vector computers in the analysis of high energy physics data. Hardware experience is desired. Successful candidates will be involved in the ALEPH (LEP) or DO (Fermilab) collider experiments. Applicants should submit a curriculum vitae, list of publications and arrange for three letters of recommendation to be sent to

Dr. Joseph Lannutti
Director
Supercomputer Computations
Research Institute
Florida State University
Tallahassee, Florida 32306-4052
U.S.A.

The Florida State University is an Equal Opportunity, Affirmative Action Employer.



European Laboratory for Particle Physics
Laboratoire Européen pour la Physique des Particules
European Organization for Nuclear Research
Organisation Européenne pour la Recherche Nucléaire

The Experimental Physics Division intends to make an appointment to the position of a

PHYSICIST

in experimental particle physics research. Candidates are expected to have an excellent record of successful work in this field, and to have the ability to provide leadership. Preference will be given to candidates under 38 years of age. The appointment will be made for a fixed term, and may subsequently become permanent.

The holder will play an important role in all aspects of the conception and design of experiments, and of the construction and operation of detectors, and the development of on-line and off-line software and the analysis of data.

Please send letters of application, including the names of three referees, list of publications, a brief curriculum vitae and a brief description of research interests, to the

**Leader of the
Experimental Physics Division,
CERN
1211 Geneva 23, Switzerland
quoting reference EP/RE,
before 10.7.86.**

Mel s'en mêle

L'Ecole des Etats-Unis sur les accélérateurs de particules, dont le directeur est Mel Month, prévoit d'organiser une nouvelle école annexe sur la physique et la technologie des accélérateurs pour l'été 1987. Pour complément d'information, contacter Marilyn Paul, Fermilab MS 125, PO Box 500, Batavia, Illinois 60 510, USA.

En attendant, la Société de physique américaine a créé pour ses membres un Groupe spécifique sur la physique des faisceaux de particules, comme suite à une suggestion de Mel Month. Pour complément d'information, s'adresser au Membership Department/Topical Groups, American Physical Society, 335 East 45th Street, New York, NY 10017, USA.

Roger Anthoine prend sa retraite

Le rédacteur en chef des premiers numéros du COURRIER CERN, Roger Anthoine, a quitté le CERN à la fin du mois de mars après une carrière de 27 ans dans les Relations publiques du CERN. Pendant toutes ces années, des centaines de journalistes et chroniqueurs de la radio et de la télévision sont venus au CERN pour connaître cette organisation et ont pu donner un aperçu des travaux qui y sont réalisés à des publics très divers. Sous son influence, le CERN a également encouragé une politique de «portes ouvertes» en s'occupant de groupes de visiteurs curieux de découvrir en quoi consiste l'observation de particules. Dans les premiers temps, le nombre de visiteurs par mois était de plusieurs

centaines mais, ces dernières années, il est passé parfois à plusieurs milliers et rien n'indique qu'il va diminuer.



Roger Anthoine, 27 ans après le premier numéro du Courrier CERN.

(Photo CERN 362.3.86)

SCOTTISH UNIVERSITIES SUMMER SCHOOL IN PHYSICS

The proceedings of the schools provide pedagogical introductions to advanced topics at a level appropriate to research staff and students in high energy physics. All volumes are produced in hardcover editions at reasonable prices and are obtainable directly from SUSSP. Copies purchased through bookshops will be more expensive.

SUPERSTRINGS AND SUPERGRAVITY

1985 school. 550 pages. Editors: Davies & Sutherland. Price 25 pounds.

This school was conceived of as a topical survey of supersymmetry and supergravity but developed into an excellent introduction to all facets of superstring theory. The lecture notes provide the first comprehensive presentation of this exciting new subject. Also included are excellent reviews of conventional quantum gravity approaches and cosmology. Contributors: Duff, Ellis, Ferrara, Grisaru, Isham, van Nieuwenhuizen, Schwarz and West.

FUNDAMENTAL FORCES

1984 school. 540 pages. Editors: Frame & Peach. Price 20 pounds.

The school was primarily concerned with standard, and non-standard, models of the electro-weak theory, together with a critical assessment of the experimental evidence from the CERN collider (Darriulat, Jariskog, Walsh, Dowell, Perl, Cashmore, Ledermann). In addition there were excellent reviews of Lattice QCD (Schierholz), Supersymmetry (Llewellyn-Smith) and Composite Models (Harari).

STATISTICAL & PARTICLE PHYSICS

1983 school. 500 pages. Editors: Bowler & McKane. Price 20 pounds.

The school was concerned with recent developments in statistical and particle physics which exploit and extend the analogy between statistical fluctuations in thermal systems and quantised field theories of elementary particles. Topics included: The onset of chaos (Feigenbaum); First order transitions (Gunton); Monte Carlo methods (Swendsen); Topological excitations (Goddard); Interface problems (Zia); Random systems (Moore); String theory (Green); Monte Carlo calculations (Rebbi).

GAUGE THEORIES

1980 school. 640 pages. Editors: Bowler & Sutherland. Price 15 pounds.

Topics included: Broken gauge theories (Appelquist); Neutrino physics (Barish); GUTS (Ellis); High energy interactions (Giacomelli); High energies (Glashow); Confinement ('t Hooft); QCD (Ross); Surface theories (Wallace); e^+e^- experiments (Wiik).

QUARK MODELS

1976 school. 500 pages. Editors: Barbour & Davies. Price 10 pounds.

Seminal articles on strings (Nielsen), Supersymmetry (Zumino), Confinement in lattice gauge theories (Susskind), and Quark models (Close, Pati, Dalitz, Sutherland, Yankielowicz).

**SUSSP Publications (CC)
Department of Physics
University of Edinburgh
EDINBURGH EH9 3JZ. UK.**

FELLOWS IN ACCELERATOR TECHNOLOGY

Brookhaven National Laboratory

Applications are invited from individuals with a PhD degree and/or major training in the physical sciences or engineering who wish to launch careers in accelerator design and development.

Successful candidates will be appointed Fellows in Accelerator Technology in the High Energy Facilities organization of Brookhaven National Laboratory (BNL) for a period of one year, renewable for a second year. Fellows are expected to select their investigations from among the general objectives of the accelerator physics program at BNL.

The High Energy Facilities organization is responsible for the operation of a 200 MeV proton linac, and the 30 GeV Alternating Gradient Synchrotron (AGS) which provide proton, polarized proton and heavy ion beams. New initiatives are underway in: the acceleration of heavy ions in the AGS; the construction of a 1 GeV booster synchrotron for protons and heavy ions; a proposal to build a relativistic heavy ion collider (RHIC); a study of a high intensity upgrade of the AGS (AGS II); and, an extensive research and development effort directed towards the Superconducting Super Collider (SSC).

Scientists and engineers of any nationality are eligible to apply. Salaries are competitive, and Fellows are eligible for comprehensive employee benefits and relocation allowances. Candidates should send a detailed resume to: J. Herbert, AGS Department, Bldg. 911B, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, New York, 11973. Equal Opportunity Employer m/f.

THE PENNSYLVANIA STATE UNIVERSITY

Experimental High Energy Physics

The Department of Physics is seeking candidates for a tenure-track position of Assistant or Associate Professor in Experimental High Energy Physics starting in the 1986-87 academic year.

Candidates should have a Ph.D. in Physics, an established record of research accomplishments and expect to work initially in conjunction with other faculty and staff in the research effort at Penn State.

Research projects which are presently in their early stages include Fermilab experiment E-706, a study of direct photon production utilizing a spectrometer with liquid argon calorimetry located in the Meson Laboratory, and Fermilab experiment E-760, a study of charmonium states utilizing a hydrogen gas jet target inside the antiproton accumulator storage ring.

A desire and aptitude for teaching of undergraduate and graduate students is essential.

Send applications, including a curriculum vitae and names of at least four references, to

**Professor Gerald A. Smith
Head
Department of Physics
Box B**

by July 15, 1986, or until a suitable pool of applicants is identified.

An affirmative action/equal opportunity employer.