

Nouvelles brèves

Après une brillante carrière dans de nombreux secteurs de l'administration du Laboratoire, Norman Blackburne a pris sa retraite du CERN à la fin avril.



Personnalités

L'éminent théoricien André Martin, qui a pris officiellement sa retraite du CERN en 1994, est devenu membre honoraire de l'Institut Tata de recherche fondamentale de Bombay.

Tous les cinq ans, l'association des anciens élèves de la Fondation universitaire belge décerne à de jeunes scientifiques belges des prix destinés à récompenser des résultats exceptionnels. Le prix de sciences physiques pour 1996 a été attribué à Albert De Roeck, qui travaille actuellement à DESY. Il avait commencé sa carrière en physique des hautes énergies à Anvers en collaborant à l'expérience NA22 qui utilisait le Spectromètre hybride européen du CERN, avant de prendre des fonctions à l'Institut Max Planck de Munich au début des expériences HERA à DESY, et il était jusqu'à une date récente coordinateur de la physique de l'expérience H1 à HERA.

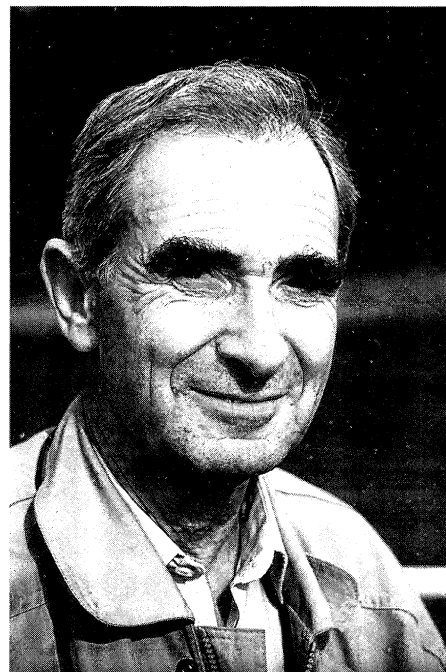
Réunions

Un cours sur les noyaux exotiques sera organisé sous les auspices de l'Ecole internationale de physique des ions lourds du 11 au 20 mai 1997 à Erice (Italie) au Centre de culture scientifique Ettore Majorana. P.G. Hansen sera le directeur du cours et R.A. Broglia le

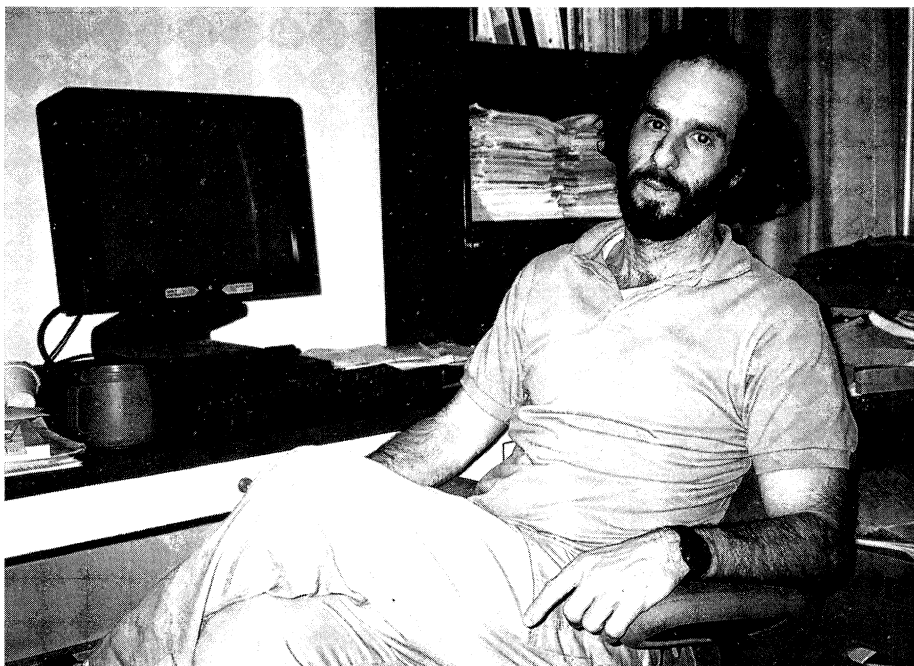
directeur de l'Ecole. Le Centre est dirigé par A. Zichichi. Les candidatures (pas de formulaire d'inscription particulier) et les demandes d'informations doivent être adressées au professeur P.G. Hansen, National Superconducting Cyclotron Laboratory (NSCL), Michigan State University, East Lansing, MI 48824-1321, U.S.A. Téléphone: 517/333-6433, courrier électronique: hansen@nscl.msu.edu ou à Mme Shari Conroy, téléphone: 517/333-6333 et courrier électronique: conroy@nscl.msu.edu.

Ci-dessous:

xxx.lanl.gov - Paul Ginsparg, de Los Alamos, devant son poste de travail à partir duquel il gère son service d'information électronique pour les publications de physique et qui est maintenant devenu une archive électronique. Après avoir commencé modestement en 1991, cette base de données et d'autres bases de données sur la physique sont maintenant au service de plus de 35 000 chercheurs et traitent plus de 70 000 opérations électroniques par jour, et elles ont révolutionné l'accès aux informations sur la recherche physique. Les chercheurs envoient leurs contributions à un serveur central sur Internet, et les «abonnés» reçoivent périodiquement des résumés des nouvelles contributions, dans lesquels ils peuvent sélectionner des éléments en vue d'un téléchargement ultérieur.



Au début de juillet, un séminaire spécial a été organisé pour célébrer le 70^e anniversaire de l'éminent théoricien russe Boris Ioffe de l'Institut de physique théorique et expérimentale de Moscou.





POST DOCTORAL RESEARCH ASSOCIATE

The Thomas Jefferson National Accelerator Facility (formerly CEBAF), located in Newport News, Virginia, USA, is a 4 GeV continuous wave electron accelerator, designed to explore the fundamental nature of nuclear matter with particular emphasis on strong interaction QCD. Experiments will be carried out in three halls simultaneously. The CEBAF Large Acceptance Spectrometer (CLAS) is a large solid angle, multiple-particle spectrometer based on a superconducting toroidal magnet located in Hall B. It consists of large drift chambers, time-of-flight, counters, gas Cerenkov counters, electromagnetic calorimeters, integrated with a high speed trigger and data acquisition system. CLAS is expected to become operational in the fall of 1996. The CLAS physics program focuses on precision studies of electromagnetic transitions of baryons and mesons, the spin structure functions of the proton and neutron, and properties of the few-body system. Electron and photon beams will be utilized in these studies.

Applications are being invited for a Post-Doctoral Research Associate position for CLAS. The position requires a Ph.D. in Experimental Subatomic Physics. The successful candidate will participate in the commissioning of the experimental equipment in Hall B, and in the analysis of initial experiments. Demonstrated experience in hardware and/or software aspects of large acceptance detectors is preferred. The position will be for a one year term initially, with the possibility of extension for two additional years.

Interested candidates should send curriculum vitae and three letters of reference to: Jefferson Lab, ATTN: Employment Manager, 12000 Jefferson Avenue, Newport News, Virginia 23606. Please specify position #PT2107 and job title when applying.

Proud to be an Equal Opportunity, Affirmative Action Employer

FACULTY POSITION IN EXPERIMENTAL PARTICLE PHYSICS

Department of Physics
University Of California, San Diego

The Department of Physics at the University of California, San Diego plans to make a tenured or tenure track faculty appointment in experimental particle physics, subject to availability of funds.

The current experimental program at UCSD includes collaborations in the CLEO, KTEV, L3 and LSND experiments along with a strong program preparing for the CP violation searches with the BABAR detector and the multi-TeV frontier with the CMS detector at the LHC.

This position is expected to begin July 1, 1997. Applicants should have a Ph.D in Physics, a clear record of research accomplishments and a strong interest in undergraduate and graduate instruction. Salary will be commensurate with experience and qualifications and will be based on the University of California pay scales. Persons interested in being considered for this position should send their curriculum vitae, a summary of research interests, a list of publications, and arrange to have three letters of recommendation sent to:

HEPX-Faculty Search Committee

Department of Physics, 0354

University of California, San Diego

9500 Gilman Drive, La Jolla, CA 92093-0354

email: search@hep1.ucsd.edu

The deadline for applications is **30 September 1996**. UCSD is an equal opportunity/affirmative action employer.

UNIVERSITÉ DE GENÈVE

Le Département de physique nucléaire et corpusculaire met au concours un poste de

Maître - assistant

destiné au projet AMS sur la Station spatiale internationale Alpha. Les candidats doivent être porteurs d'un doctorat en physique, se prévaloir d'une bonne expérience en physique des particules et ne pas avoir plus de 32 ans. Une connaissance des détecteurs en silicium est souhaitée. Ce poste est limité à une durée maximum de 4 ans. Les candidatures doivent être adressées d'ici au 15 août 1996 à l'adresse suivante:

Prof. M. Bourquin
Département de physique nucléaire
et corpusculaire
24, quai Ernest-Ansermet
CH - 1211 Genève 4



FAST ELECTRONICS GROUP LEADER

The Thomas Jefferson National Accelerator Facility (formerly CEBAF), operates a 4 GeV CW Superconducting Electron Accelerator together with three large spectrometer systems to explore fundamental questions of nuclear and particle physics.

We are currently searching for a leader for the Fast Electronics Group in the Physics Division. The successful candidate will be responsible for providing technical expertise and supervision for the design, fabrication, and maintenance of the analog and digital electronic systems utilized in the experimental program. The position is also responsible for providing technical guidance on electronics issues to the physics user community, and the physics division detector and data acquisition groups. The successful candidate is also responsible for questions of staffing and budget for the group.

The minimum qualifications for this position are: BSEE or an equivalent engineering degree plus 10 years experience. In-depth knowledge of the state-of-the-art analog and digital electronics used in nuclear particle physics detectors and associated data acquisition systems. Two to three years of managerial experience in leading an electronics instrumentation group. Basic experience with construction of analog and digital electronics for different types of detectors.

Interested candidates should send curriculum vitae and three letters of reference to: Jefferson Lab, ATTN: Employment Manager, 12000 Jefferson Avenue, Newport News, Virginia 23606. Please specify position #PR3102 and job title when applying.

Proud to be an Equal Opportunity, Affirmative Action Employer

A la récente cérémonie de nouvelle inauguration du Bâtiment de physique Rockefeller de la Case Western Reserve University à Cleveland, Keith Robinson (à gauche), de la CWRU, présente le laboratoire d'enseignement pour les étudiants du second cycle à (de gauche à droite) Sheldon Glashow de Harvard, Lawrence Krauss de la CWRU et James Krumhansl de Cornell. Glashow a donné la troisième conférence annuelle Michelson de la CWRU sur le sujet «L'Univers et la particule: tout sur l'infiniment grand et

l'infiniment petit» (Albert Michelson, de l'expérience de Michelson-Morley de mesure de la vitesse de la lumière, avait été nommé en 1881 en tant que premier titulaire de la chaire de physique de la CWRU.) A la cérémonie, Lawrence Krauss a donné une conférence sur «La physique de la guerre des étoiles», sur la base de son best-seller.



Contributions au Courrier du CERN

Le rédacteur souhaite recevoir vos contributions. Les textes doivent être, si possible, transmis par courrier électronique.

L'adresse est la suivante: **courrier @ cernvm.cern.ch**. Une typographie ordinaire est préférable (ASCII). Faire suivre les illustrations par courrier (Courrier CERN, 1211 Genève 23, Suisse). Si vous envisagez d'écrire un article long (plus de quelque 500 mots), ce qui est plus particulièrement le cas des organisateurs de conférences, veuillez d'abord prendre contact avec le rédacteur (par e-mail ou fax +41 22 782 1906).

Soutien de l'UNESCO

Aux termes d'un accord conclu récemment entre le CERN et l'UNESCO, cette dernière organisation apportera cette année un montant pouvant atteindre 60 000 dollars pour aider de jeunes physiciens d'Etats non-membres du CERN, en particulier de pays en développement, à participer aux trois grandes Ecoles du CERN, l'Ecole sur les accélérateurs, l'Ecole de calcul électronique et l'Ecole de physique. Cet accord, qui restera en vigueur par la suite, témoigne de l'ancienneté de l'association entre le CERN et l'UNESCO. C'est dans le cadre de l'UNESCO, de 1950 à 1952, que le terrain avait été préparé pour la création de l'organisation qui allait devenir le CERN et qui devait voir le jour deux ans après seulement. Dans une période plus récente, la création du Conseil pour les actions en physique de l'UNESCO constitue la preuve du soutien que cette organisation apporte depuis longtemps à la physique en tant que modèle pour la science fondamentale.

Cette année, on peut encore s'inscrire à l'Ecole du CERN sur les accélérateurs "Introduction à la physique des accélérateurs" qui se tiendra du 21 octobre au 1^{er} novembre à Cascais, au Portugal. Pour plus d'informations: cas.estoril@cern.ch, fax +41 22 767 5460, WWW <http://www.cern.ch/Schools/CAS/>

"Des hadrons pour la santé": La nouvelle exposition technologique du CERN sur les applications médicales de la recherche en physique des particules a été inaugurée le 5 juin par H. C. Eschelbacher, chef de la Délégation allemande au CERN. L'exposition est présentée jusqu'au 12 juillet à l'Institut allemand de recherche sur le cancer de Heidelberg. En 1996, elle viendra également au CERN (pour un symposium sur la thérapie hadronique du 11 au 13 septembre), à Vienne et à Prague. A la cérémonie d'ouverture, de droite à gauche: le Directeur du GSI de Darmstadt Hans J. Specht, le Directeur du Département de physique médicale Wolfgang Schlegel et le Directeur de la Clinique radiologique de Heidelberg Michael Wannenmacher.

(Photo Howald/DKFZ)





CERN

**Laboratoire Européen pour la Physique
des Particules**

Le CERN est le plus grand laboratoire du monde pour la recherche scientifique. Avec ses 19 états membres, il est ouvert aux chercheurs en physique des particules élémentaires de tous les pays.

Visites sur rendez-vous
tél. 767 8484

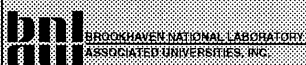
Exposition Microcosm,
lundi à samedi de 9 h à 17 h
entrée libre.

Route de Meyrin (bus 9 CERN)

**PARTICLE
ACCELERATOR
PHYSICS**

The National Synchrotron Light Source at Brookhaven National Laboratory (NSLS) has a position available for a PhD scientist trained in experimental particle accelerator physics with experience in the development of software application programs for accelerator control. Activities will be directed to the operation and improvement of the existing storage rings at the NSLS. Important areas of work are the study of injection, orbit stabilization and beam intensity limiting effects, and the development of the related hardware and diagnostic instrumentation.

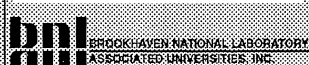
Candidates should send a curriculum vitae with names of three references to: Dr. S. Krinsky, NSLS, Bldg. 725B, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973-5000. BNL is an equal opportunity employer committed to workforce diversity.



**EXPERIMENTAL
PHYSICS**

The Physics Department at Brookhaven National Laboratory has a position available for a PhD scientist trained in experimental physics (preferred) or computer science, with experience in implementing complex data acquisition systems involving multiple processors and high data rates. Requires familiarity with C, C++ or other object-oriented language, the UNIX operating system, and maintenance tools. This position is for an individual who will develop software for data acquisition for STAR, one of the large experiments at RHIC. The successful candidate will participate in the design, documentation, implementation and testing of the software architecture, as well as provide support for ongoing hardware development projects.

Candidates should send a curriculum vitae with names of three references to: Dr. Michael LeVine, Physics Dept., Bldg. 510D, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973-5000. BNL is an equal opportunity employer committed to workforce diversity.



Offre de services

Après environ 35 ans de
recherches en physique des particules,
et n'ayant pas encore atteint l'âge de la
retraite,
je suis prêt à m'investir dans toute
activité,

scientifique,
technique ou
administrative,

à temps complet, à temps partiel ou
pour des missions temporaires

-libre immédiatement-

Claude Bricman
chemin de la Ranchée, 7
CH-1232-Confignon

e-mail : Bricman@CERN.CH



**Imperial College of Science, Technology
and Medicine
London**

**Research Associate Positions in High
Energy Physics**

The High Energy Physics Group at the Blackett Laboratory, Imperial College, London, has vacancies for two Research Associate Positions.

The group has programmes with ALEPH at LEP, ZEUS at HERA, BABAR at SLAC and with the preparations for both the CMS and LHC-B experiments at the LHC. There is a strong tradition for both analysis and detector and electronics development.

The positions are for an initial period of two years. The starting date will be by negotiation between 1 Oct 1996 and 1 January 1997.

Salary, according to age, in the range £16,451 - £ 22,811 including London allowance.

Applications comprising a curriculum vitae, a list of publications and the names and addresses of two referees should be sent by Monday July 17 to:

Professor P. J. Dornan
Blackett Laboratory
Prince Consort Road
London SW7 2BZ

Late applications will be considered until the positions are filled.

*The College is striving towards Equal Opportunities
At the leading edge of research, innovation and learning*

STANFORD UNIVERSITY

The Stanford Linear Accelerator Center (SLAC) invites applications for an Assistant Professorship in accelerator physics. This is a tenure-track faculty position at Stanford University. The SLAC accelerator physics program focuses on electron accelerators for high-energy physics research and for synchrotron radiation-based research. Currently it includes Accelerator research and development with:

- the Stanford Linear Collider,
- the NLC, a next-generation linear collider,
- PEP-II, a high-current storage ring collider (B-Factory),
- advanced synchrotron light sources based on storage rings and linacs,
- new techniques for particle acceleration.

Candidates should have an outstanding research record which encompasses a combination of theoretical and experimental research and shows potential for major accomplishments. The successful applicant is expected to take a leading role in the ongoing activities at SLAC or in related accelerator physics research. Applicants should send a curriculum vitae, a publication list, and names of three references by August 1, 1996 to **Professor Ronald D. Ruth, SLAC MS/26, Stanford University, Stanford, CA 94309.** *Stanford University is an equal opportunity employer and welcomes applications from women and members of minority groups.*

PHYSICIST/ENGINEER

The Lawrence Berkeley National Laboratory (LBNL) is seeking a Physicist or Engineer to join the Beam Electrodynamics Group of the Center of Beam Physics, Accelerator and Fusion Research Division. The group is involved in the design, testing, and commissioning of radiofrequency (RF) and microwave systems and devices for control and diagnostics of charged particle beams.

The successful applicant will work primarily on R&D for the PEP-II B-factory but may also be involved in other projects. These projects include the multibunch feedback systems for the PEP-II B-factory and the Advanced Light Source, high power RF systems and components for PEP-II B-factory, RF and feedback systems design for the Next Linear Collider Damping Rings, and stochastic cooling and diagnostics studies for the Relativistic Heavy Ion collider. Will be responsible for the design and laboratory measurements of various devices and systems, using the facilities available in the Lambertson Beam Electrodynamics Laboratory at LBNL, and participate in measurements of the devices and systems in operating accelerators at various locations.

Qualifications include a Ph.D. or equivalent experience in Physics or Engineering, with 3-5 years of professional level experience as demonstrated by a strong publications record in relevant technical fields; basic knowledge of accelerator physics; and sound working knowledge of electromagnetism in application to accelerator diagnostics, instrumentation, and RF systems. Experience preferred in the following: RF and microwave measurements using standard laboratory equipment, including vector network analyzers, time domain reflectometers, and spectrum analyzers; practical accelerator operations and commissioning, especially for storage rings; high-frequency, 2-D and 3-D electromagnetic computer-aided design programs, particularly the MAFIA codes; and computer programming skills.

LBNL provides excellent benefits and compensation packages and the opportunity for career growth. Please mail your resume indicating box #JERN4265/AFR to: Ernest Orlando Lawrence Berkeley National Laboratory, Human Resources Dept., Bldg. 938A, One Cyclotron Rd., Berkeley, CA 94720. EOE.



**RESEARCH ASSOCIATE POSITION
HIGH ENERGY PHYSICS
THE OHIO STATE UNIVERSITY**

The experimental high energy physics group at The Ohio State University invites application for a postdoctoral research associate position with our CLEO program at CESR. In addition to our ongoing data analysis effort in heavy flavor physics, we are also involved with the CLEO III upgrade program where we have major responsibilities for the design and implementation of the silicon vertex detector and the data acquisition system. Interested candidates should send a letter of application, vitae, list of publications, and three letters of recommendation to Professor K. K. Gan, The Ohio State University, Department of Physics, 174 West 18th Avenue, Columbus, Ohio 43210-1106. The Ohio State University is an equal opportunity employer and we actively encourage applications from women and minority candidates.

**U.S. DEPARTMENT OF ENERGY
ASSOCIATE DIRECTOR FOR HIGH
ENERGY AND NUCLEAR PHYSICS
Office of Energy Research
\$100,526 to \$122,688 per annum**

The U.S. Department of Energy (DOE) is seeking applicants for the Senior Executive Service position of Associate Director for High Energy and Nuclear Physics. This person will be the principal official responsible for the development, implementation, and direction of DOE's High Energy and Nuclear Physics research programs. These programs encompass R&D at national laboratories, universities, and private institutions involving about 350 grants, contracts, and inter-agency agreements, with a budget in excess of \$900 million, which funds more than 90 percent of the Federal effort in High Energy Physics and more than 85 percent of Nuclear Physics. The programs study the basic nature of energy and matter seeking an understanding of the ultimate constituents and structure of nuclear and sub-nuclear matter and the fundamental forces. These research activities typically use both domestic and international facilities and are often carried out through multi-institutional and multi-national collaborations. The position reports directly to the Director of Energy Research.

Exceptional difficulty in recruiting highly qualified candidates may be the basis for paying a recruitment or relocation bonus (up to 25% of base pay), and/or requesting approval of a dual compensation waiver for civil and uniformed service retirees.

Applications must be postmarked no later than July 22, 1996. Direct inquiries to: Office of Executive and Technical Resources, 4E-060, DOE, Washington, DC 20858, Attn: ERD-96-10. The vacancy announcement is available from the above address or through Energy Research's internet Home Page ([HTTP://WWW.ER.DOE.GOV](http://WWW.ER.DOE.GOV)). DOE is an equal opportunity employer.

**NATIONAL INSTITUTE FOR NUCLEAR PHYSICS
INFN**

POST-DOCTORAL FELLOWSHIPS FOR NON ITALIAN
CITIZENS IN THE FOLLOWING RESEARCH AREAS:

**THEORETICAL PHYSICS (N. 10)
EXPERIMENTAL PHYSICS (N. 20)**

The INFN Fellowships Programme 1996-97 offers thirty positions for non Italian citizens for research activity in theoretical or experimental physics. Fellowships are intended for young post-graduates not more than 35 years of age at the time of application.

Each fellowship is granted for one year (which may start during the period from September to November 1997) and may be extended for a second year.

The annual gross salary is 30,000,000 Italian Lire, plus travel expenses for round trip transportation from the home fellows to the INFN Section or Laboratory. Lunch tickets are provided for work days.

Candidates should submit an application form and a statement of their research interests, including three letters of reference.

Applications should reach INFN not later than *October 31, 1996*.

Candidates will be informed by the end of April 1997 about the decisions taken by INFN's committee.

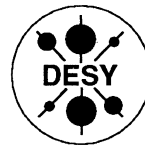
The successful applicants may carry out their research activity in Italy, at any of the following Laboratories and Sections of INFN:

National Laboratories of Frascati (Rome), National Laboratories of Legnaro (Padua), Southern National Laboratory (Catania) and National Gran Sasso Laboratories (L'Aquila).

INFN Sections in the Universities of:

Turin, Milan, Padua, Genoa, Bologna, Pisa, Rome 'La Sapienza', Rome 'Tor Vergata', Naples, Catania, Trieste, Florence, Bari, Pavia, Perugia, Ferrara, Cagliari, Lecce and National Institute for Health (Rome).

Information, requests for application forms, and applications should be addressed to Personnel Office - Fellowship Service, National Institute for Nuclear Physics (INFN) - Post Box 56 - 00044 Frascati (Rome) Italy.



DESY announces several

'DESY Fellowships'

for young scientists in experimental particle physics to participate in the research mainly with the HERA collider experiments H1 and ZEUS or with the fixed target experiments HERA-B and HERMES. New fellows are selected twice a year in April and October.

DESY fellowships in experimental particle physics are awarded for a duration of two years with the possibility for prolongation by one additional year.

The salary for the fellowship is determined according to tariffs applicable for public service work (IIa MTV Ang.).

Interested persons, who have recently completed their Ph.D. and who should be younger than 32 years are invited to send their application including a résumé and the usual documents (curriculum vitae, list of publications, copies of university degrees) until 30 of September 1996 to **DESY, Personalabteilung - V2 -, Notkestraße 85, D-22607 Hamburg**. They should also arrange for three letters of reference to be sent until the same date to the address given above.

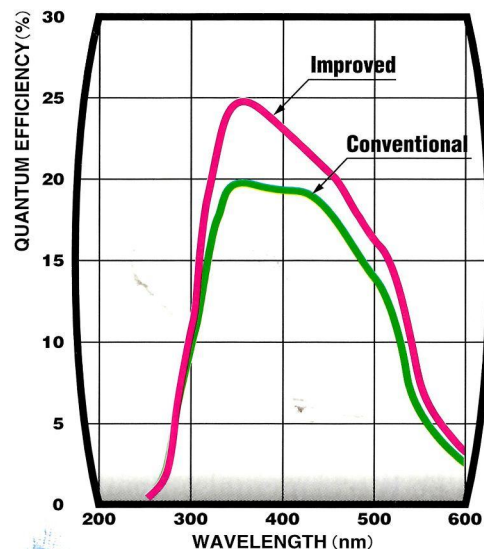
Handicapped applicants with equal qualifications will be preferred.

DESY encourages especially women to apply.

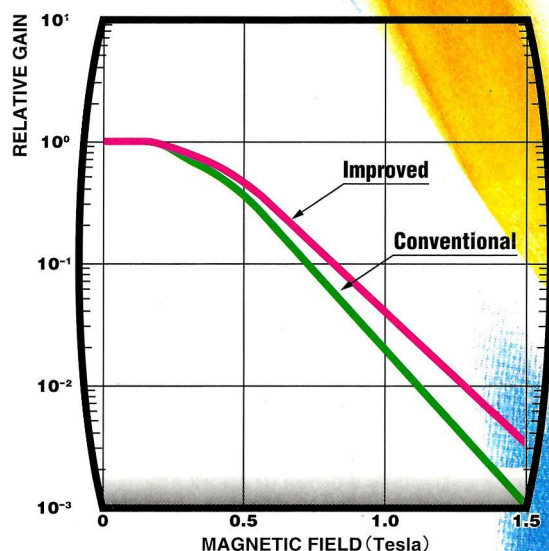
As DESY has laboratories at two sites in Hamburg and in Zeuthen near Berlin, applicants may indicate at which location they would prefer to work.

New standard photomultiplier tube from Hamamatsu for an operation under a high magnetic field at 1.5 tesla. Improvement of the Q.E. by 25% possible to have better timing resolution than 100 ps in TOF counter. Improvement of the gain by 3.5 times to 3×10^6 at 1.5 tesla. Effective for the weak light applications like a cherenkov counter. (comparing with conventional Hamamatsu Fine Mesh PMTs)

Hamamatsu is pleased to hear from you for our further step up to support next century.



New STANDARD at 1.5 tesla



APPLICATIONS

- CHERENKOV COUNTER
- TOF COUNTER
- CALORIMETER

HAMAMATSU

HAMAMATSU PHOTONICS K.K., Electron Tube Center

314-5 Shimokanzo, Toyooka-village, Iwata-gun, Shizuoka-ken, 438-01 Japan. TEL: 81-539-62-5248 FAX: 81-539-63-2205 TLX: 4289-625

United Kingdom : Hamamatsu Photonics UK Limited. TEL: 44-181-367-3560 FAX: 44-181-367-6384
 North Europe : Hamamatsu Photonics Norden AB TEL: 46-8-703-29-50 FAX: 46-8-750-58-95
 Italy : Hamamatsu Photonics Italia S.R.L. TEL: (39) 2 935 81 733 FAX: (39) 2 935 81 741
 Spain : Hamamatsu Photonics Espana SL. TEL: (34) 93 582 44 30 FAX: (34) 93 582 44 31

U.S.A. : Hamamatsu Corporation TEL: 1-908-231-0960 FAX: 1-908-231-1218
 Germany : Hamamatsu Photonics Deutschland GmbH TEL: 49-8152-3750 FAX: 49-8152-2658
 France : Hamamatsu Photonics France S.A.R.L. TEL: (33) 1 69 53 71 00 FAX: (33) 1 69 53 71 10
 Switzerland : CERN Liaison Office TEL: (41) 31 879 13 33 FAX: (41) 31 879 18 74