

RECRUITMENT

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Hall B Experimental Physicist - PR2395

Jefferson Lab invites applications for an Experimental Physicist position in experimental end station Hall B (Staff Scientist I – Salary Range: \$46,700 – \$73,700 / Staff Scientist II – Salary Range: \$58,600 – \$92,600).

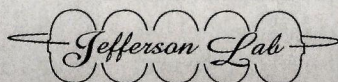
The Hall B Group operates the CEBAF Large Acceptance Spectrometer (CLAS) for cutting edge research on a wide range of topics in nuclear and particle physics. A major focus is to obtain a fundamental understanding of the hadron structure in the regime of strong QCD by exploring the excitation of baryon resonances, the nucleon spin responses in inclusive and exclusive reactions, the search for "missing" baryon resonances, the production of deeply virtual Compton photons, and the production of pseudoscalar and vector mesons.

The successful candidate will contribute to the implementation of the Hall B research program and the hardware and software support of the CLAS detector as well as other Hall B facility instrumentation. Individual is expected to actively engage in the Jefferson Lab research effort and assume a lead role in a specific research effort and/or innovative detector instrumentation project. He/she will also participate in the conceptual planning, proposal development, design, implementation, and operation of experiments, and candidate will initiate new research proposals. A portion of effort should be devoted to high quality research of interest to future projects at Jefferson Lab.

Requirements include a PhD in Experimental Nuclear or Particle Physics and at least three years of experience in an experimental nuclear or particle physics environment, or equivalent combination of education, experience and specific training. Candidates should have demonstrated leadership skills, and the ability to conceive original physics experiments with electromagnetic probes along with a strong background in a technical area, such as instrumentation, software design or data analysis, and the demonstrated ability to work as part of a team effort.

Applicants may apply online at www.jlab.org/jobline or mail/fax curriculum vitae and copies of any recent (un)published work. In addition, please arrange to have letters from three references sent to: Employment Administrator, Mail Stop 28D, Jefferson Laboratory, 12000 Jefferson Avenue, Newport News, VA 23606. Email: jobline@jlab.org, Fax: 757-269-7559

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Computational P H Y S I C I S T

The newly created Kavli Institute for Particle Astrophysics and Cosmology at Stanford University and Stanford Linear Accelerator Center (SLAC) are looking for physicists to staff the new Institute. The Institute will focus on recent developments in astrophysics, high-energy physics and cosmology, and will foster collaboration between faculty from Stanford's Physics and Applied Physics departments and SLAC.

As a computational physicist, you will work with astronomical and physics software, and will be responsible for maintaining and upgrading the scientific software associated with the work of the Kavli Institute. In addition, you will need to take an active role in collaborating on research projects and helping students master computational roles. You will also keep the computing area functioning smoothly by working and interfacing with the SLAC Computing Services Group.

Experience as a computational physicist with astronomical and physics software is required. Excellent interpersonal skills are required to interact with students, postdoctoral researchers, senior scientists, and computing professionals. A PhD in astrophysics or related area is preferred.

For consideration, please submit a resume to employment@slac.stanford.edu indicating job number 24526. EOE



STANFORD LINEAR ACCELERATOR CENTER

Experimental P H Y S I C I S T

The newly created Kavli Institute for Particle Astrophysics and Cosmology at Stanford University and Stanford Linear Accelerator Center (SLAC) is looking for several physicists to staff the new Institute. The Institute will focus on recent developments in astrophysics, high-energy physics and cosmology, and will foster collaboration between faculty from Stanford's Physics and Applied Physics departments and SLAC.

You will conduct research in experimental astrophysics projects in connection with the Institute and will report to the Assistant Director for Research. Responsibilities will include supervision of graduate students, postdoctoral researchers, and technical staff in the design, development, and calibration of advanced instrumentation for astrophysical experiments, and the use of such instrumentation to make fundamental measurements in particle astrophysics and cosmology. Participation in both hardware development and scientific data analysis is expected.

You must have a Ph.D. in physics or astronomy plus extensive postdoctoral experience in the design and development of advanced instrumentation for astrophysics. A familiarity with large-scale space-based or ground-based experiments is preferred. Candidates should have expertise in state-of-the-art sensor technology for optical, UV, X-ray, or gamma-ray photon detection. Experience with electronics, optics, and/or mechanical sub-systems is desired. A strong record of scientific publication is expected.

For consideration, please submit your resume to employment@slac.stanford.edu indicating job number 24529. EOE



STANFORD LINEAR ACCELERATOR CENTER

recherche pour le future

Pour le Département de Recherche Énergie et Sécurité Nucléaire nous recherchons une personnalité douée pour la communication et bonne stratégie en tant que

Directeur/Directrice de recherche et membre du Directorat du PSI

L'Institut Paul Scherrer (PSI) est un institut de recherche multidisciplinaire pour les sciences naturelles et les sciences de l'ingénieur. Dans le cadre de collaborations nationales et internationales avec des universités, d'autres instituts de recherche et l'industrie, le PSI s'engage dans les domaines des Sciences de la Matière Solide et des Matériaux, de la Physique des Particules, de l'Astrophysique, des Sciences Biologiques ainsi que de la Recherche Énergétique et Environnementale. Il développe et met en œuvre de larges et complexes installations de recherche pour ses propres chercheurs et des utilisateurs externes. Parmi elles, on compte une source de lumière synchrotrone, une source de neutrons de spallation de 1 MW, un réacteur de puissance zéro et un laboratoire chaud.

Votre défi

Comme directeur/directrice du Département de Recherche «Énergie et Sécurité Nucléaire» vous aurez la responsabilité scientifique de définir et réaliser la stratégie de recherche du Département ainsi que d'utiliser et développer ses installations nucléaires. Vous effectuerez aussi votre propre recherche et donnerez éventuellement des cours au niveau universitaire dans le domaine des matériaux nucléaires.

Votre profil

Nous cherchons pour cette tâche très exigeante une personnalité ayant fait ses preuves au niveau scientifique avec un doctorat en physique, chimie ou sciences de l'ingénieur. Vous avez de l'expérience dans le domaine des sciences des matériaux et la motivation de donner une nouvelle impulsion dans cette recherche à l'institut en utilisant l'excellente infrastructure nucléaire et les larges installations du PSI. Vous avez bien-entendu de l'expérience et des qualités de chef.

Le Prof. Ralph Eichler se fera un plaisir de répondre à vos questions scientifiques et techniques: Téléphone +41 (0)56 310 32 16, e-mail: ralph.eichler@psi.ch

Votre candidature écrite devra être adressée jusqu'au 14 juin au Paul Scherrer Institut, Division du personnel, Mme Ursula Schmid, Chiffre 4000, 5232 Villigen PSI Suisse

Autres offres d'emploi: www.psi.ch



Johann Wolfgang Goethe-Universität
Frankfurt am Main

The Johann Wolfgang Goethe-Universität Frankfurt am Main
Fachbereich Physik
invites applications for a

Full Professorship (C4) for Experimental Physics at the Institut für Kernphysik

The J. W. Goethe-University is seeking an internationally renowned individual in the area of experimental nuclear and hadron physics at high energy and matter density.

Candidates should have an outstanding research record in this field.

The successful candidate is expected to perform research in the framework of the department's major research program "Structure and dynamics of elementary matter (Heavy Ion Physics)". He/She is expected to advance the traditionally close relationship of the Department with the Gesellschaft für Schwerionenforschung (GSI) in Darmstadt for mutual benefit and for the prospects of the planned GSI future facility. The chair's current research fields are heavy ion collisions at the highest available energies at the SPS and LHC of CERN in Geneva and at RHIC in Brookhaven. The long term research program with the ALICE-detector at LHC should be continued and brought to a successful completion.

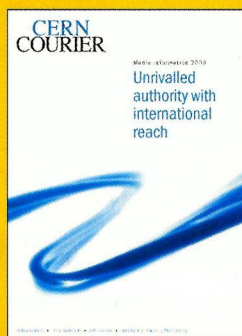
The chair is an integral part of the future Stern-Gerlach center located at the new natural sciences campus Riedberg of the J. W. Goethe-University. Participation in the Center of Scientific Computing is suggested. The University expects the successful candidate to apply for outside grants in support of research projects.

Qualification requirements are a proven record of scientific achievements through a Habilitation or equivalent accomplishments.

The University of Frankfurt is an equal opportunity/affirmative action employer and welcomes applications from qualified women. Handicapped applicants with equal qualification will be given preference. The terms of employment are based on § 71 of the Hessian University Law in its version from July 31, 2000, http://www.hmwk.hessen.de/hhg/HHG_31_07_2000.pdf

Applications including CV, the list of publications, research and teaching records, should be sent within 6 weeks after publication of this advertisement to:

**Dekan des Fachbereichs Physik der Johann Wolfgang Goethe-Universität,
Postfach 11 19 32, 60054 Frankfurt am M., Germany**



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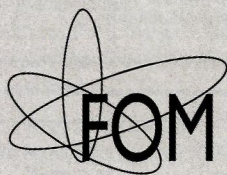
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Foundation FOM

The Foundation for Fundamental Research of Matter (FOM) stimulates and coordinates fundamental physics research in the Netherlands. For that, she is enabled by grants from the Dutch government through the Dutch Organisation for Scientific Research (NWO). FOM receives funds from NWO, Euratom, EU and several companies. The 1000 employees approximately, mainly scientists (including Ph.D. - students) and technicians, are divided over five laboratories and approximately 100 departments at general and technical universities. FOM - founded in 1946 - is a foundation recognized by NWO.



NIKHEF is the national institute for subatomic physics in the Netherlands, in which the funding agency FOM, the Universiteit van Amsterdam, the Vrije Universiteit Amsterdam, the Katholieke Universiteit Nijmegen and the Universiteit Utrecht participate. The academic staffs consist of about 120 physicists of whom more than half are Ph.D. students or postdoctoral fellows. Technical support is provided by a well-equipped mechanical workshop and an advanced electronic, engineering design and IT group with a total staff of about 100. The design and construction of detectors and the analysis of data take place at the Institute in Amsterdam as well as at the participating universities.

The institute coordinates and supports major activities in experimental subatomic physics in the Netherlands. The experiments are performed with accelerators at CERN (Geneva), DESY (Hamburg), FNAL (Batavia), SLAC (Paolo Alto) and Brookhaven (Upton).

NIKHEF also participates in the European project in high-energy neutrino astroparticle physics ANTARES. A detector, consisting of 1000 optical modules, is currently under construction. It will be deployed over the next two years in the Mediterranean Sea at a depth of 2.5 km. NIKHEF provides the read-out system based on modern optical data transmission technology. The NIKHEF group is involved in developing filtering and reconstruction software running on a PC farm in the shore station.

For its Antares programme, NIKHEF is searching for an outstanding

Experimental Physicist

with a strong record of accomplishment and leadership in experimental research, preferably in high energy physics.

Requirements

Candidates will be considered for a permanent position when they have at least several years of post-doctoral experience. They should have a broad and deep knowledge of experimental particle physics and a keen interest in the field of astroparticle physics. Further qualifications include: pragmatism, creativity, competence in detection techniques, and knowledge of modern information technology. The candidate should have excellent communication skills, ability for teamwork and leadership capability.

Information

General information and information about the scientific and educational activities at NIKHEF can be found at:

<http://www.nikhef.nl/>. Further information can be obtained from the leader of the ANTARES programme, Dr. M. de Jong, telephone: +31 (0) 20 592 21 21/e-mail: mjg@nikhef.nl, or the chairman of the search committee, Prof. Dr. Ing. J.F.J. van den Brand, telephone: +31 (0) 20 592 20 15/e-mail: jo@nikhef.nl.

Applications

Letters of application, including curriculum vitae, list of publications and the names of three referees are to be sent before June 1st. 2003 to Mr. T. van Egdom, P.O. Box 41882, 1009 DB Amsterdam, the Netherlands. NIKHEF is an equal opportunity employer.



**research for the future**

The Paul Scherrer Institute (PSI) is looking for a strategically thinking and communicative personality for the position of

Head of Department of Research in Nuclear Energy and Safety

The Paul Scherrer Institute is a multi-disciplinary institute for research in the natural and engineering sciences. PSI is active in research in condensed matter physics, materials science, elementary particle physics, astrophysics and the life sciences, and also in energy and the environment. The research is carried out in collaboration with universities, research laboratories and industry from around the world. The Institute develops and operates large and complex research facilities for its own and external researchers. Among these are a synchrotron light source, a 1 MW spallation neutron source, a zero power reactor and a hot laboratory.

Your challenges

As Head of the Department for Research in Nuclear Energy and Safety you will bear the scientific responsibility for defining and implementing the research strategy of the department, and for the use and development of the nuclear facilities. You also will perform your own research and the teaching of nuclear materials at university level would be welcomed.

Your profile

For these very demanding tasks we are seeking a scientifically renowned personality with a PhD in physics, chemistry or engineering. You will have experience in the field of material sciences and be highly motivated to give new impulse to this research by using the excellent technical nuclear infrastructure and the large experimental facilities of PSI. Proven success in working with and leading people is an essential requirement.

Prof. Ralph Eichler will answer your professional questions: telephone +41 (0)56 310 32 16, e-mail: ralph.eichler@psi.ch

Please send your written application before 14 June 2003 to Paul Scherrer Institut, Mrs Ursula Schmid, Department of Human Resources, code no. 4000, 5232 Villigen PSI Switzerland

Further job opportunities at PSI may be found at: www.psi.ch

Experimental Physicist

The Physics Department of Brookhaven National Laboratory presently has an excellent opportunity for an Experimental Physicist to work with the PHENIX Group under the direction of M.J. Tannenbaum. The rank will be at Assistant Physicist although a higher rank or a professional appointment could be considered, depending on experience. The position requires a Ph.D. in nuclear or elementary particle physics, experience with data acquisition in large, modern high energy or nuclear physics experiments, and the ability to work in a large collaboration and participate in projects that cross institutional boundaries as part of a team. Should be able to demonstrate expertise in one or more of the following areas: programming in C++ and Java, CORBA, operating systems including Linux, VxWorks, and Windows 2000, Ethernet and Gigabit Ethernet networking, real time data acquisition electronics, or high speed trigger electronics.

Research will be with PHENIX, a large multipurpose detector, performing forefront work in the study of relativistic heavy ion and polarized proton collisions at the highest available energies. PHENIX explores a broad area of physics which emphasizes the study of hot hadronic matter and the search for new effects, such as a possible phase transition to a quark-gluon plasma in heavy ion collisions, and the origin of the proton spin in polarized proton interactions. This position is divided equally between detector operations and physics research, although the demands of detector operations may require intense activity in the first year or more of the appointment in data acquisition work.

Interested candidates should submit a CV, three letters of reference indicating position # MK 2847 to M. Kipperman, Brookhaven National Laboratory, Bldg. 185, Upton, New York 11973-5000. BNL is an equal opportunity employer committed to workforce diversity.

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RESEARCH ASSOCIATE POSITION

INDIANA UNIVERSITY

The Indiana University High Energy group on the DØ experiment at the Fermilab Tevatron Collider seeks outstanding applicants for a postdoctoral Research Associate, beginning immediately or at a negotiated time. The position is for a shared effort on DØ and on linear collider detector R&D and simulations. Applicants should have a Ph.D. in high energy physics with experience in the area of physics analysis, preferably on a colliding beam experiment. Successful candidates will be based at Fermilab and will participate in the continuing Run 2 of the Tevatron.

The Indiana group is involved in various aspects of the muon and fiber tracker detectors and is active in the areas of muon identification, *b*-jet tagging, *B*-physics analyses, and new particle searches including Higgs boson searches in the future.

Applicants should send a curriculum vitae, a list of publications, a statement of research interests and at least three letters of recommendation to:

Ms. Donna Martin
Physics Department
Indiana University
Bloomington, IN 47405
Fax: (812) 855-0440

For more information, please contact Prof. Rick Van Kooten
(rvankoot@indiana.edu, 812-855-2650) and/or visit
<http://hep.physics.indiana.edu/~rickv/postdoc.html>

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Job Opportunities with Diamond

An opportunity to join the Diamond Light Source team!

The Diamond synchrotron light source, currently under construction at the Rutherford Appleton Laboratory Oxfordshire, is the largest scientific facility to be built in the UK in the last 30 years. It will consist of a 562 m circumference 3 GeV electron storage ring and full energy injector, and have an initial complement of 7 synchrotron beamlines.

Exciting opportunities exist for physicists, electronic engineers and computer scientists at various levels to support the development and construction of the accelerators and their control system.

The following posts are currently available:

- Computer System Manager (DLS0038)
- Electronic Systems Engineers (DLS0039)
- Software Engineers (DLS0040)
- Head of Accelerator Physics Group (DLS0041)
- Head of Radiofrequency Systems Group (DLS0042)
- Head of Beam Diagnostics and Feedback Systems Group (DLS0043)
- Head of Insertion Devices and Magnet Systems Group (DLS0044)
- Physicists for various posts in Accelerator Physics, Insertion Devices, Magnet Systems, Radiofrequency Systems, Beam Diagnostic and Feedback Systems (DLS0045)

We are looking for highly motivated scientists and engineers with an independent outlook, but who must be able to work in, or lead a team. Candidates should have a good honours degree in physics, electronic engineering, computer science or a related discipline, as appropriate to the post.

Salary on appointment will depend on qualifications and relevant experience.

Further details can be found at www.diamond.ac.uk

Applications for DLS0038, 39, 40 must be received by 2nd May 2003, and DLS0041, 42, 43, 44, 45 16th May 2003.



Faculty Position in Experimental Elementary Particle Physics at Southern Methodist University

The Physics Department at SMU is seeking an outstanding individual at the Assistant or Associate Professor level (more senior level may also be considered). We are looking for an individual with significant accomplishments and promise of future achievements who will take a leadership role in enhancing our current activities and in setting future directions.

The SMU group has major responsibilities on the CLEO III, ATLAS, CLEO-c and BTeV experiments. The group has excellent mechanical and electronics facilities and enjoys a strong university support.

Applications will be reviewed beginning in October 1, 2003. Please submit a CV, statement of research interest, and at least 3 letters of recommendations to:

Prof. Richard Stroynowski,
Department of Physics, Southern Methodist University,
Dallas, Texas 75275-0175 U.S.A.



NEED TO RECRUIT?

E-mail: Reena Gupta: reena.gupta@iop.org

Sarah Cock: sarah.cock@iop.org

GSI Darmstadt

one of the leading laboratories in heavy ion and hadron physics, member of the Helmholtz Association, and the



Johann Wolfgang Goethe-Universität
Frankfurt am Main

invite applications for the joint position of

Leading Scientist and Full Professor (C4)

We are seeking an outstanding individual in the area of experimental nuclear and hadron physics (strong interaction, QCD) who will also represent this area in teaching at the University. A leading participation is expected in currently running programs at GSI (such as HADES) and, in particular, in future experiments with antiprotons (HESR, PANDA). He/She will lead a research division at GSI and is expected to foster close collaborations with German and foreign research institutions. The professorship will be integrated in the future Stern-Gerlach center located at Campus Riedberg, the new natural sciences campus of the J. W. Goethe-University, Frankfurt. Prerequisites are the Habilitation or an equivalent scientific qualification.

After the appointment to Professor at the University the successful candidate will be granted a leave of absence to GSI.

GSI and the University are equal opportunity, affirmative action employers and encourage applications from women. For the employment § 71 of the Hessian University Law in its version from 31.07.2000 applies (http://www.hmwk.hessen.de/hhg/HHG_31_07_2000.pdf).

Applications including the curriculum vitae, the list of publications, and research and teaching records should be sent within **6 weeks** after publication of this advertisement to:

Wissenschaftliche Geschäftsführung der Gesellschaft für Schwerionenforschung mbH, Planckstraße 1, 64291 Darmstadt, Germany



Stockholm University

invites applications for a permanent position as
**Lecturer in Accelerator Based
Elementary Particle Physics**

The research group at Stockholm University works on the digitizing electronics of the ATLAS hadron calorimeter and electronics for the first level calorimeter trigger. The group is active in studies of the top quark at the DO experiment, and simulation studies of beyond the standard model physics, in particular Higgs and SUSY for ATLAS. The successful candidate is expected to play a leading role in the preparation for physics studies and supervision of PhD students in the ATLAS experiment.

The application should arrive no later than May 5th 2003. Full description of the application procedure and more information about the research group can be found at URL: <http://www.physto.se/bubnet/Atlas/position.html>

More information can be obtained from Prof. Sven-Olof Holmgren, e-mail: soh@physto.se, telephone: +46 8 5537 8660.

**Massachusetts Institute of Technology
Laboratory for Nuclear Science
Cambridge, Massachusetts 02139-4307**

Research Scientist Position in the area of High Energy Physics

Applications are invited for a Research Scientist position to work on the Data Acquisition system and High-Level Trigger of the CMS Experiment at the Large Hadron Collider. The Laboratory for Nuclear Science at MIT is participating in both the High Energy and the Heavy-Ion programs of CMS and the MIT group in CMS is planning to expand the effort at CERN within the next few years.

We seek a PhD physicist with a strong interest in High Energy Physics at the LHC and with experience in the area of Data Acquisition (DAQ) and/or Computing. Experience with real-time systems, especially on the software side is desirable and a solid knowledge of Object-Oriented programming techniques is necessary. CMS is expected to start taking data in 2007. The successful candidate will be stationed permanently at CERN in Geneva, Switzerland and will work with the CERN CMS DAQ Group. The Research Scientist Position is initially for 3 years with the possibility of renewal. The physicist appointed will not only have an opportunity to play an important role in both the development of the DAQ system and physics studies but will also have the possibility to participate in physics analyses after the startup of the LHC.

Applicants should submit curriculum vitae, publication list and request that 3 recommendation letters are sent to:

Professor Bolek Wyslouch, c/o Ken Hewitt, Room 26-516, Massachusetts Institute of Technology, 77 Massachusetts AV, Cambridge MA 02139-4307, Email khewitt@mit.edu

Applications will be accepted until the position is filled. MIT is an Affirmative Action/Equal Opportunity employer and especially solicits applications from qualified women and minorities.

Postdoctoral Position Synchrotron Research

We are seeking a postdoctoral fellow (m/f) to conduct research in the framework of the experimental subprogram of the Laboratory for Waste Management and the Project Team of the microXAS beamline at the Swiss Light Source (SLS). The research activities of the involved groups are directed towards the use of synchrotron-based spectroscopic techniques to investigate retardation processes in (nuclear) waste repositories on the micro scale. The doctoral study will focus on the speciation of selected radioelements incorporated into highly heterogeneous waste repository materials (cement, iron corrosion products) and will involve (micro) X-ray absorption spectroscopy (XAS) measurements and (micro) X-ray fluorescence (XRF) experiments at the microXAS beamline at the Swiss Light Source (SLS) and other synchrotron sources in Europe or the USA.

Your Qualifications

Candidates should possess a Ph.D. in physics, geochemistry, chemistry, mineralogy, environmental sciences or related fields. The successful candidate should have good experimental and technical skills, the ability to integrate spectroscopic and geochemical/mineralogical data, and the ability to work well in a collaborative setting. Experience in synchrotron-based techniques is required.

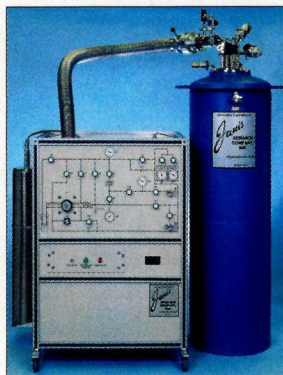
For further information contact PD Dr. A. Scheidegger, Tel. +41 56 310 21 84.

Please send your application to PAUL SCHERRER INSTITUT, Human Resources, Mr. Thomas Erb, ref. code 4402, 5232 Villigen PSI, Switzerland.

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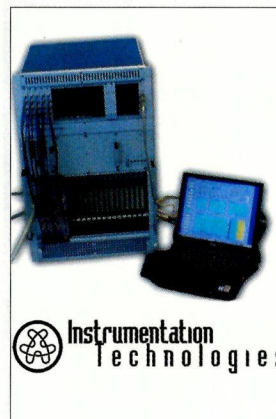
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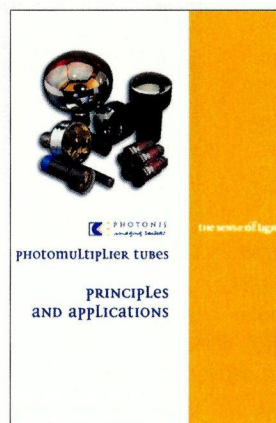
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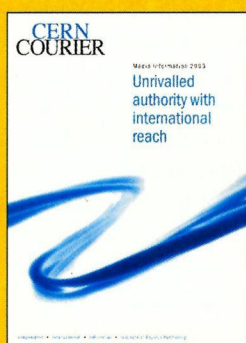
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Photonis

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