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Universität Hamburg



The Collaborative Research Centre 676 "Particles, Strings and the Early Universe: the Structure of Matter and Space-Time" at the University of Hamburg invites applications for an

Independent Junior Research Group Leader Position (salary scale E 15 TV-L)

The candidate, a highly qualified junior scientist with a strong research interest in Theoretical Particle Physics, especially in Collider Physics and/or the Phenomenology of Physics beyond the Standard Model, shall hold a PhD, passed no longer than six years ago. We expect relevant postdoctoral research experience, an excellent scientific record, the ability to independently lead a research group, active collaboration and significant contributions to the research goals of the SFB 676.

The Independent Junior Research Group will be incorporated in the general research program of the Research Centre 676 (for further information see <http://www.iexp.desy.de/sfb676/>) and be located at the 2nd Institute for Theoretical Physics of the University of Hamburg, where the required laboratory/office space and basic equipment, including overheads, will be provided.

The Independent Junior Research Group is funded by the Deutsche Forschungsgemeinschaft for up to five years and will enable independent research to be carried out within a research network. Funding includes the position of the group leader, scientific and technical personnel as well as consumables and instrumentation.

For further details on application criteria and funding conditions, please refer to DFG form 60.5e (http://www.dfg.de/forschungsfoerderung/formulare/download/60_5e.pdf).

Evaluation includes a personal presentation of the project and panel assessment.

Female scientists are particularly encouraged to apply.

Applications should include a research plan (max. 5 pages: previous work in the field, goals, methods and research program, schedule, cost break down), CV, list of publications and copies of the most important publications and are to be submitted by June 1, 2007 to:

Prof. Dr. Jan Louis
II. Institute for Theoretical Physics
Hamburg University
Luruper Chaussee 149
D-22761 Hamburg
Germany

Equally qualified handicapped applicants will be given preferential consideration



*The Laboratory of Research into the
Fundamental Laws of the Universe
of the Physical Sciences Division
DSM / DAPNIA*

at the **CEA-Saclay Research Center**
is expanding its capabilities in the Fusion Research
and invites applications for Positions in
Accelerator Physics and Engineering

The International Fusion Materials Irradiation Facility **IFMIF** aims at producing an intense flux of 14 MeV neutrons, in order to characterize materials envisaged for future fusion reactors. This facility is based on two high power cw drivers delivering 125 mA deuteron beams at 40 MeV each. In the framework of the agreement on the "Broader Approach" for nuclear fusion, between Japan and the European Union, the IFMIF-EVEDA (Engineering Validation and Engineering Design Activities) project includes two objectives for accelerator activities:

- to validate the technical options with the construction of an accelerator prototype which will be installed and commissioned at full beam current at Rokkasho (Japan) ;
- to produce the detailed integrated design of the future IFMIF accelerator, including complete layout, safety analysis, cost and planning, etc.

An international accelerator team, located at CEA-Saclay (France), is in charge of the coordination of the design studies and of the prototype construction. In order to strengthen this Accelerator Team, DSM/DAPNIA is looking for accelerator physics and engineering candidates. Hereunder you will find three immediate vacancies.

For further information please contact Dr Alban Mosnier, IFMIF-EVEDA Accelerator System Group Leader, amosnier@cea.fr

Candidates are invited to send their application including a curriculum vitae, list of publications as well as three letters of reference to CEA-Saclay, Human Resources, Mrs. A.C. Gouze, DAPNIA/DIR, 91191 Gif/Yvette cedex, France.

Beam Dynamics Coordinator - You are responsible of the beam dynamics studies and of the final accelerator architecture. You lead the calculation and simulation activities, needed for the minimization of beam loss and for the specification of the accelerator components tolerances. You have a PhD in accelerator physics or a related discipline and you have already gained sound experience in beam dynamics, in particular with high intensity beams.

Instrumentation Coordinator - You coordinate the studies, developments and implementation of the beam diagnostics, from the ion source to the beam dump, required for transport and measurement of the beam characteristics. Very good knowledge is expected on various beam diagnostics systems - beam position, beam profile, beam loss monitors, etc - as well as digital and analogue electronics. You have a PhD in accelerator physics or a related discipline and you have already gained sound experience in beam instrumentation.

Drift Tube Linac Coordinator - You coordinate the accelerating structure activities: electromagnetic and mechanical studies, calls for tender and manufacture follow-up, assembling and testing, including measurement of the performances under high RF power. You have a PhD in accelerator physics or a related discipline and you have already gained sound experience in low-beta accelerating structures.



For information and consultative advice on **classified advertising** in *CERN Courier* and the Web options that we offer, please contact **Adam Hylands**.

Tel +44 (0)117 930 1027 E-mail adam.hylands@iop.org.

The Cluster of Excellence 'Origin and Structure of the Universe'

Invites applications for Fellows Postdoctoral Scientists Doctoral Students

The Cluster of Excellence 'Origin and Structure of the Universe' has recently been installed at the Campus Garching within the Excellence Initiative of the federal government of Germany. The cluster is operated jointly by the physics departments of the two Munich Universities, the Max-Planck Institutes and ESO. It aims at a deeper understanding of the physics of fundamental forces and their interaction with matter that drives the expansion of the universe, the creation of elements and of large scale structures observed in our universe. For this it will install 10 new research groups working in the key areas of science relevant to this field, and create positions for research fellows, postdoctoral scientists and doctoral students.

The fields of science covered range from cosmology and astrophysics, astro-particle physics to particle- and nuclear physics, pursued theoretically and experimentally.

In the **fellow program** we seek the best scientists in the field of fundamental physics. They will be selected in a competitive scheme across the various fields of research from within the cluster. Selected candidates will be invited to join an existing research group of their choice. Support will be given for the duration of 2 years. Selection panels are held about twice per year.

Postdoctoral researchers will work in specific groups and on well defined projects, outlined in more detail in the specific job description. The position is for initially 3 years.

Doctoral students, selected by a PhD committee will be assigned to a specific project and supervisor. The successful candidates will be enrolled at the University of the supervisor which will also award the doctoral degree in physics. The student's progress will be followed by two independent advisors. Funding is for three years.

Besides profiting from scientific infrastructures present on the campus Garching the groups will also be integrated in transregional and international research activities either ongoing or planned. Doctoral students will follow a structured PhD program. Interdisciplinary weekly seminars and journal clubs organized by the cluster as well as the large visiting-scientists program offer excellent opportunities for young researchers to broaden their scientific horizon and start new collaborations.

Active participation in the teaching program for physics at the faculties of physics and of the Cluster is welcome.

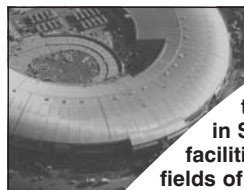
The advancement of women in the scientific field is an integral part of the clusters and the university's policy. **Women, therefore, are especially encouraged to apply.** Persons with disabilities will be given preference over other applicants with equal qualifications.

Details on the different positions can be found on

<http://universe-cluster.de> (→ jobs)

Applicants should complete the corresponding web-forms.

Excellence Cluster 'Origin and Structure of the Universe'
c/o Prof. Dr. Stephan Paul
Physics Department
Technische Universität München

 Diamond Light Source is a new synchrotron and a leading scientific facility of its type in the world. Located on the Harwell Science and Innovation Campus in South Oxfordshire, we will host research facilities supporting cutting edge research in all fields of science.

Post Doctoral/ Senior Researchers in Accelerator Physics

Ref. DIA0307/TH

Salary: £25-44k 3 year fixed term

In these challenging roles, you will investigate techniques and develop proposals for producing ultra-short, femtosecond, X-ray pulses based on high brightness electron beams. You will model and simulate high brightness DC and RF guns, magnetic bunch compression schemes and beam transport through accelerating structures, transfer lines and undulators, taking space charge, CSR and wake fields into account.

You will be educated to at least degree level in an appropriate branch of physics, with a strong mathematical ability. A good theoretical understanding of basic electron beam dynamics is needed, while particular experience in this field is desirable. A high degree of computer literacy is essential, alongside good communication, interpersonal and presentational skills.

We offer a competitive salary (dependant upon skills, qualifications and experience), comprehensive benefits, a final salary pension scheme and flexible working hours.

For further information and application forms please visit our website at www.diamond.ac.uk, telephone our recruitment line on 01235 778218 (answerphone) or write to us at the address below, quoting the reference number.

Closing Date: 11th May 2007

 **diamond**
www.diamond.ac.uk

Diamond Light Source Ltd, Diamond House, Chilton, Didcot, Oxfordshire OX11 0DE



U.S. Department of Energy
Office of Science
Office of High Energy Physics

Director, Research and Technology Division
Announcement Number SES-HQ-SC-011

The U.S. Department of Energy, Office of Science, Office of High Energy Physics (HEP), is seeking applicants to fill the Research and Technology Division Director position with a salary range of \$111,676 to \$168,000 per annum. HEP supports research in the study of the basic nature of matter, energy, space and time, seeking an understanding of the ultimate constituents and structure of matter and the fundamental forces of nature. This program includes the management and administration of basic physics research and the development, design, construction, operation, and maintenance of large, highly technology advanced particle physics facilities. The Research and Technology Division is responsible for managing and administering basic research that will provide discoveries and new insight that advance our scientific knowledge of high energy physics processes and for R&D activities to advance the high energy physics facilities in areas such as instrumentation, detectors, and accelerator technology. This position manages and directs the activities of this Division. For further information on the program please go to <http://www.science.doe.gov/hep/index.shtm>.

For further information about this position and the instructions on how to apply and submit an application, please go to the following website: www.usajobs.com. To be considered for this position you must apply online. This announcement closes May 29, 2007. It is imperative that you follow the instructions as stated on the announcement (SES-HQ-SC-011) located at the website indicated above.

The Department of Energy is an Equal Opportunity Employer.



Postdoctoral Position within the ATLAS Inner Detector Group

The Max Planck Institute for Physics is one of the world's leading research institutes focused on particle and astroparticle physics from both an experimental and a theoretical perspective. One main research activity in elementary particle physics at accelerators is the participation in the ATLAS experiment to operate at CERN's Large Hadron Collider (LHC) starting this year. The scientific focus of the ATLAS collaboration is the search for the Higgs boson, precision measurements of top- and b-quark physics, and the search for new physics beyond the Standard Model.

The ATLAS Inner Detector Group at the Max Planck Institute for Physics has contributed to the design, construction and commissioning of the Semiconductor Tracker (SCT). The data analysis program pursued in our group concentrates on the alignment of the Inner Detector with particle tracks and precision measurements within the Standard Model in the area of top-quark physics, namely the determination of the top-quark mass and the top anti-top production cross-section.

We invite applications for a postdoctoral position in experimental elementary particle physics to strengthen our group mainly for the commissioning of the SCT as well as for data analysis in the areas outlined above. In addition, participation in a newly started R&D project towards a novel pixel detector concept for the upgrade of the ATLAS Inner Detector to be operated at the high luminosity period at the LHC (SLHC) would be encouraged.

Initially, the position is limited to two years, with the possibility of extension within the scope of the German Hochschulrahmengesetz. Salary is according to the German federal pay scale (TVöD). The Max Planck Society is committed to increasing the participation of women wherever they are underrepresented. Applications from women are particularly welcome. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply.

For questions concerning the position offered please contact Dr. Richard Nisius (nisius@mppmu.mpg.de). Interested scientists should send their application in writing, including a CV and list of publications until May 31, 2007. Applicants should also arrange for three letters of recommendation to be received by the same date at the following address:

Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)

Frau A. Schielke

Föhringer Ring 6, D-80805 München

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Contact Moo Ali

Tel +44 (0)117 930 1264

E-mail moo.ali@iop.org

cerncourier.com, CERN Courier

IOP Publishing, Dirac House, Temple Back, Bristol BS1 6BE, UK

cerncourier.com/jobs

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DESY ist eines der weltweit führenden Beschleunigerzentren zur Erforschung der Struktur der Materie. Die Schwerpunkte der Forschung reichen von der Elementarteilchenphysik über vielfältige Anwendungen der Synchrotronstrahlung bis zu Bau und Nutzung von Röntgenlasern.

Die DESY-Dokumentation betreut das DESY Open-Access Repository und erstellt in Kollaboration mit der Bibliothek des Stanford Linear Accelerator Center (SLAC) eine Literaturlatenbank, die Teilchenphysikern/-innen weltweit den Zugriff auf benötigte Fachliteratur ermöglicht. Zur Verstärkung unseres Teams suchen wir zum nächstmöglichen Termin eine/-n

Physiker/-in in Teilzeit, halbtags Entgeltgruppe 14

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Wir erwarten von Ihnen ein abgeschlossenes Hochschulstudium der Physik, vorzugsweise mit Promotion. Sie haben fundierte und breit gefächerte EDV-Kenntnisse, Fachkenntnisse in experimenteller und instrumenteller Physik und möchten Ihr umfangreiches Wissen in der Literaturdokumentation und Bibliotheksdatenverarbeitung einsetzen. Wenn Sie zudem noch über gute englische Sprachkenntnisse verfügen, freuen wir uns auf Ihre vollständigen Bewerbungsunterlagen unter Angabe der Kennziffer in unserer Personalabteilung. Fachliche Fragen beantwortet Ihnen gerne Herr Schmidt unter Telefon 040/8998-2560.

Die Vergütung und sozialen Leistungen entsprechen denen des öffentlichen Dienstes. Schwerbehinderte Menschen werden bei gleicher Eignung bevorzugt berücksichtigt. DESY fördert die berufliche Entwicklung von Frauen und bittet Frauen deshalb nachdrücklich, sich um die zu besetzende Stelle zu bewerben. DESY verfügt über einen Betriebskindergarten.

Deutsches Elektronen-Synchrotron DESY

in der Helmholtz-Gemeinschaft

Kennziffer: 49/2007 • Notkestraße 85 • 22607 Hamburg

Telefon 040/8998-3392 • www.desy.de

E-Mail: personal.abteilung@desy.de

Bewerbungsschluss: 21.05.2007



Professorship in Experimental Elementary Particle Physics

The Scuola Normale Superiore of Pisa invites expressions of interest from qualified physicists in the field of experimental elementary particles, in view of a forthcoming vacancy in its Classe di Scienze at the full professor level.

We are seeking candidates with a proven record of achievements and a clear potential to promote and to lead research at the frontier of high energy physics and to contribute to the teaching of physics, at graduate and undergraduate level, and to the general activities of the Scuola Normale Superiore.

As a result of this enquiry the Scuola Normale Superiore will either issue an official vacancy declaration and carry out the procedure for filling a tenured position, or otherwise will offer a suitable temporary contract.

The expressions of interest should be addressed not later than May 18th 2007 to:

Prof. Fulvio Ricci

Preside Classe di Scienze,

Scuola Normale Superiore

Piazza dei Cavalieri 7, PISA I-56126



European Organization for Nuclear Research

European Laboratory for Particle Physics

With 2500 staff members and some 8000 scientific users from 80 countries, the European Organization for Nuclear Research, CERN, an Intergovernmental Organization with its seat at Geneva, Switzerland, is the leading international Laboratory for fundamental research in particle physics. The annual Budget of presently about 1 billion Swiss francs is funded by 20 Member States. CERN is presently constructing the Large Hadron Collider, LHC, the world's most powerful particle accelerator that will provide new insights into the origin and the structure of matter and into the forces governing the Universe.

The Director-General is the Chief Executive Officer and legal representative of the Organization. He/she is directly responsible to, and shall execute the decisions of, the CERN Council, the Organization's governing and decision-making body composed of the representatives of the Member States.

The term of office of the present Director-General, Dr Robert Aymar, ends on 31st December 2008. The Council is therefore inviting applications for the appointment of a

Director-General

for a five-year term of office starting on 1st January 2009.

THE POSITION The successful candidate will • provide scientific and managerial leadership to the Organization • lead the implementation of the approved scientific programme, with emphasis on the full exploitation of the scientific potential of the LHC • develop strategic options for the long-term scientific programme of the Organization as an integral part of the European Strategy for Particle Physics • maintain and develop collaboration with the European national laboratories and institutes in the field as an integral part of the European Strategy for Particle Physics • maintain and develop close relations with Member States and non-Member States, and with the world-wide scientific user community of CERN.

REQUIREMENTS • Capacity for providing scientific and managerial leadership for CERN, for representing the Organization in dealings with governments and other bodies in and outside the Member States and for effective building of consensus within the Organization, the Member States and internationally • Outstanding expertise and a high reputation in particle physics and/or closely related fields • Communication and negotiation skills in accordance with the level of the position.

Applicants are requested to address a letter of interest, with a detailed curriculum vitae, to the Chairperson of the Search Committee and to send it to the CERN Council Secretariat*, before 31st May 2007. The Council is scheduled to make the appointment in December 2007. To allow the Director-General Designate sufficient time for consultation and familiarisation with CERN, a position within the Organization can be arranged for the year 2008. Additional information may be obtained from the Chairperson of the Search Committee; please contact the Council Secretariat. An appropriate remuneration and benefits package will be offered.

For general information about CERN: <http://www.cern.ch>.

In line with CERN's equal opportunities policy, both men and women are encouraged to apply.

*Mrs Brigitte Beauseroy, Council Secretariat, CERN, CH-1211 Geneva 23, Switzerland Tel. +41 22 767 28 34 Fax. +41 22 782 30 11 e-mail Brigitte.Beauseroy@cern.ch



EUDET

Detector R&D towards the International Linear Collider

TRANSNATIONAL ACCESS TO DETECTOR R&D INFRASTRUCTURES

EUDET is a project supported by the European Union in the Sixth Framework Programme (FP6) structuring the European Research Area. The project aims at creating a coordinated European effort towards research and development for the next generation of large-scale particle detectors. EUDET comprises 23 European partner institutes and 24 associated institutes working in the field of High Energy Physics.

EUDET provides in the framework of the Transnational Access scheme travel support for groups from the EU and countries associated to FP6 for using the following infrastructures:

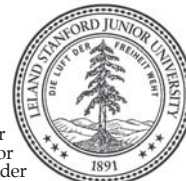
TA1: Experiments at DESY testbeam (<http://testbeam.desy.de>)
TA2: Experiments using infrastructure developed within the EUDET project: high precision beam telescope; large, low mass TPC field cage; silicon based TPC readout system; support for the development of SI-Stripdetectors; support for the development of granular calorimeters.

TO APPLY FOR EC FUNDED ACCESS

visit our web site <http://www.eudet.org> to obtain more information about the modalities of application.

Director

Stanford Linear Accelerator Center at Stanford University



Stanford University seeks nominations and applications for the position of Director of the Stanford Linear Accelerator Center (SLAC). Stanford University manages SLAC under contract with the U.S. Department of Energy (DOE) and funding for the laboratory comes primarily from the Office of Science of the DOE.

The Director of SLAC oversees a \$250M per year scientific program with a staff of 1600. The Director is responsible for leading the Laboratory's programs, including key efforts in photon science, accelerator physics, particle physics and particle astrophysics. This world-class facility is an integral part of Stanford University. The SLAC Director is a member of the Stanford faculty and reports jointly to the President and Provost, as well as serving as a member of the University's Cabinet.

Candidates should be outstanding scientists with an extensive record of scientific and technical accomplishments and demonstrated success in leading and managing large scientific programs or organizations. This position requires an individual with a proven track record of exemplary, senior-level leadership, and a vision to foster a culture of innovation and collaboration. Ability to communicate effectively and establish rapport with faculty, researchers, government officials, and the press is essential. Considerable understanding of the DOE and previous experience in a research university setting would be helpful. The appointment will be effective on or about September 1, 2007.

Applications, accompanied by current resumes, or nominations may be sent to:

Director Search Committee
Stanford Linear Accelerator Center
2575 Sand Hill Road M.S. 60
Menlo Park, California 94025
Email: directorsearch@slac.stanford.edu

The deadline for nominations and applications is June 1, 2007

"Stanford University has a strong institutional commitment to the principle of diversity. Applications from women, ethnic minorities, veterans and individuals with disabilities are encouraged. AA/EOE.

<http://slac.stanford.edu>

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The Deutsches Elektronen-Synchrotron (DESY), location Zeuthen, in a common call with the University of Potsdam, Faculty of Mathematics and Natural Sciences, invites applications for the position of a

Professor of Theoretical Astroparticle Physics (W3)

The position is combined with that of a leading scientist at DESY.

The neutrino astrophysics group in Zeuthen is one of the leading partners of the IceCube project, a neutrino telescope just under construction at the South Pole. The group has a long, successful experience from the Baikal neutrino telescope and from IceCube's predecessor AMANDA. It has close working connections to the H.E.S.S. group at Humboldt University, Berlin, to the MAGIC collaboration, and to astronomers and astrophysicists in Potsdam.

Applicants are expected to be internationally recognized experts in theoretical astroparticle physics. Their expertise should include fields like cosmic acceleration mechanisms, cosmology, particle physics beyond the standard model, or neutrino physics. Applicants are expected to integrate into the collaborative activities of the institutions mentioned above and to support their work in experimental and observational astroparticle physics. The work at DESY also opens possibilities to cooperate with DESY theoreticians on fields like phenomenological particle physics, electro-weak theory, quantum chromo-dynamics, lattice gauge theory, and cosmology.

Within the cooperation agreement with the University of Potsdam, the applicant will have teaching responsibilities on the field of particle/astroparticle physics of two semester hours. Beyond his/her activities in Zeuthen, he/she should also establish a working group localized in Potsdam.

Prerequisites for the application are a doctoral degree and a record of research equivalent to the German "Habilitation". Scientific qualifications achieved in the private sector, outside Germany, or as Junior professor will also be considered.

Appointment will be made according to the laws of Brandenburg (Brandenburgisches Hochschulgesetz of 6 July 2004 Bbg. GVBl. I, page 394 ff). According to state law (§ 40 Abs. 1 BbgHG) the contract will be limited, in case it is the first appointment of the successful applicant as university professor, with the possibility of tenure after 5 years. Exceptions are possible, in particular if foreign applicants or applications from outside Universities cannot be acquired otherwise. When the appointment will be transformed into a permanent one later, there is no need for a new appointment procedure.

Potsdam University is an equal opportunity employer. The goal is to enhance the percentage of women in the areas where they are underrepresented. Women, therefore, are particularly encouraged to apply. Applications of disabled persons will be preferred in cases of equal qualification.

Applications by 15 June 2007 to: Präsidentin der Universität Potsdam, Am Neuen Palais 10, 14469 Potsdam, Germany



Florida Institute of Technology

Postdoctoral Research Associate Position & Ph.D. Student Research Assistant Position

in Micropattern Gas Detector Development for Muon Radiography

The Department of Physics & Space Sciences at Florida Institute of Technology in Melbourne, Florida seeks to fill openings for a Postdoctoral Research Associate and a Doctoral Student Research Assistant in a project exploring muon radiography of nuclear contraband using advanced Micro Pattern Gaseous Detectors, such as GEM detectors. In the initial phase detailed detector simulations will be performed as a basis for subsequent prototype detector development and experimental radiography tests. Applications for the **post-doctoral research associate** position are welcome from candidates with a Ph.D. degree in experimental high-energy or nuclear physics. A successful candidate has experience with simulation of particle detectors in GEANT4 and with construction, commissioning, and operation of particle detector systems and associated electronics - preferably MPGDs such as GEM and MICROMEGAS detectors. Experience with simulations in a Grid computing environment is considered an asset. The successful candidate is expected to organize and lead graduate and undergraduate students participating in the project. Candidates for the **Ph.D. student research assistantship** should hold an M.S. degree or equivalent in nuclear or particle physics. They should have a strong interest in particle detector development work and must be admitted to the Department's Ph.D. program before a Research Assistantship can be awarded. Interested candidates for either position are requested to submit their CV, a list of publications, contact information for three references, and a description of relevant research experience to **Prof. Marcus Hohlmann** by e-mail ONLY at hohlmann@fit.edu. Florida Institute of Technology (www.fit.edu) is a leading private academic research institution in the Southeastern United States located near NASA's Kennedy Space Center and is an Equal Opportunity /Affirmative Action Employer.

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MEGWARE Computer GmbH
Ocean Optics BV
Oerlikon Leybold Vacuum GmbH
Pfeiffer Vacuum GmbH
QEI Corporation
RadiaBeam

12 Saint-Gobain Crystals 42
52 Scionix 14
21 WleNeR Plein & Baus GmbH 2

RECRUITMENT

12 CEA Saclay - Service de Physique Théorique 43
17 CERN - Personnel Department 46
18 DESY - Hamburg 45, 46
9 Diamond Light Source Ltd 44
25 Max-Planck-Institut für Physik 45
14 Stanford Linear Accelerator Center (SLAC) 46
22 US Department of Energy 44
40 Florida Institute of Technology 47
51 Scuola Normale Superiore 45
4 Technische Universität München - Fakultät für Physik 44
17 Universität Hamburg - Institut für Theoretische Physik 43
21 Universität Potsdam - Institut für Physikalische Chemie und
28 Theoretische Chemie 47

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