

RECRUITMENT

For advertising enquiries, contact *CERN Courier* recruitment/classified, IOP Publishing, Dirac House, Temple Back, Bristol BS1 6BE, UK.
Tel +44 (0)117 930 1027 Fax +44 (0)117 930 1178 E-mail sales@cerncourier.com
Please contact us for information about rates, colour options, publication dates and deadlines.

Wilson Fellowship in Experimental Physics

The Wilson Fellowship program at Fermilab seeks applications from Ph.D. physicists of exceptional talent with at least two years of postdoctoral work. The fellowships are awarded on a competitive basis and support physicists early in their careers by providing unique opportunities for self-directed research in experimental physics. Fellows will work on the Fermilab particle physics experiment of their choice. The Fermilab experimental program includes collider physics at both the Tevatron and the LHC, studies of neutrino and astroparticle physics, as well as R&D for future colliders and high intensity beams.

The Wilson Fellowships are tenure track positions with an annual salary fully competitive with university assistant professorships. The appointment is for an initial term of three years and can be renewed for an additional two years upon the completion of a successful review after the first two years.

Each candidate should submit a research statement describing a proposed research program, a curriculum vitae, and should arrange to have four letters of reference sent to the address below. Application materials and letters of reference should be received by October 31, 2008.

Materials, letters, and requests for information should be sent to:

Wilson Fellows Committee
Fermi National Accelerator Laboratory
MS 122, Attention: Cathryn Laue
P.O. Box 500, Batavia, IL 60510-0500
or Email: wilson_fellowship@fnal.gov

Additional information is available at:

http://www.fnal.gov/pub/forphysicists/fellowships/robert_wilson/



Fermilab is an Equal Opportunity Employer – M/F/D/V

RUPRECHT-KARLS-
UNIVERSITÄT
HEIDELBERG



The **Faculty of Physics** of the Ruprecht-Karls-University at Heidelberg, Germany, invites applications for a

Akademische Ratsstelle „Lectureship“ (A13) (Tenure-track/Tenured)

We are looking for a theoretical physicist active in the field of mathematical physics, for example string theory or supergravity. The successful candidate is expected to demonstrate a commitment to teaching excellence in theoretical physics, including the undergraduate level (theoretical mechanics, electrodynamics, quantum mechanics and statistical physics). In the long run, part of the teaching is expected to be done in German.

Applicants are expected to have a Ph.D. in physics, an excellent research record and teaching experience.

The Ruprecht-Karls-University Heidelberg wishes to increase the proportion of female faculty and, for this reason, especially welcomes applications from women. Handicapped persons with the same qualifications will be given preference.

Qualified candidates are invited to submit their application **until October 30th** with the usual documents and a research plan to **Prof. A. Hebecker, Institut für Theoretische Physik, Philosophenweg 16, D-69120 Heidelberg**



The IN2P3/CNRS Computing Centre (CC-IN2P3) is a national facility which provides storage and computing services for scientific research needs, mainly in the fields of nuclear, high-energy and astro-particle physics. More than 40 international scientific experiments regularly use its services. (For more information see: <http://cc.in2p3.fr>)

CC-IN2P3 hosts and operates one of the WLCG tier-1s centres and is responsible for the reception, long-term storage and initial processing of data produced by the 4 LHC experiments at CERN.

Job Opportunities for Engineers

At CC-IN2P3, Lyon, France

Scientific Data Storage Engineer (M/F)

Within a context of rapid growth and increased diversity of the storage services, CC-IN2P3 is looking for candidates to reinforce its Storage group. Currently composed of 7 engineers experts in data storage systems and working closely with the Systems and Operations groups, the Storage group is responsible for researching, designing, building, troubleshooting, operating and maintaining several storage systems in use within the computing centre.

The installed storage capacity of the computing centre is currently more than 10.000 Terabytes (both disk- and tape-based) and is planned to steadily grow in the coming years. Several software systems are currently in use for managing scientific data, including HPSS, GPFS, dCache, SRB, iRods, xrootd and Tivoli Storage Manager.

The ideal candidate must have a degree in computer science or a related scientific field. Interested in the usage of advanced technologies for the massive storage of scientific data, he/she will acquire the necessary proficiency through the provided training and on-site practical experience. He/she is expected to become an expert of one or several of the storage systems in use.

More information: <http://cc.in2p3.fr/article1625.html>

Software Engineer – Web Application Development (M/F)

The selected candidate for this full-time job will join a project within the Developments team. He/she is expected to effectively contribute to the development and deployment of an advanced platform for collecting, organising, correlating and reporting on information extracted from multiple independent data sources.

Mechanisms for efficient storage and retrieval of the collected data complemented by an advanced web-based interface for the visualisation of custom-selected information are essential components of this platform.

The ideal candidate must have a degree in computer science or a related scientific field with at least 3 years of experience in software development. A strong interest for advanced technologies for web-based application is essential to be successful in this position.

More information: <http://cc.in2p3.fr/article1633.html>

cerncourier.com

The **Department of Physics, Mathematics and Computer Science** at the Johannes Gutenberg-University of Mainz invites applications to fill, at the earliest possible date, the position of a

Professor of Experimental Nuclear and Hadronic Physics

(Full Professor, Bes.Gr. W 3 BBesG)

(Succession of Professor Dietrich von Harrach)

at the Institute for Nuclear Physics.

The main activities at the Institute are focused on utilizing the electron accelerator complex Mainz Microtron (MAMI). In addition, members of the Institute participate in hadron physics experiments at GSI, CERN and SLAC.

We seek an internationally acknowledged expert in this field with an outstanding track record in research and teaching. The main research activity of the successful candidate should be the study of hadronic systems with electroweak probes in the region of nonperturbative QCD. The candidate is expected to participate in the collaborative use of MAMI and to take a leading role in shaping the future development of the Institute and the performed research. Candidates are also expected to contribute significantly to the DFG-founded Collaborative Research Centre SFB443 ("Many-body Structure of Strongly Interacting Matter"), as well as to planned successors, the Research Centre "Elementary Forces and Mathematical Foundations", and to further strengthen the collaborative ties with GSI.

Candidates are expected to teach the subject area of Experimental Physics in its entire scope.

The Department of Physics, Mathematics and Computer Science aims at increasing the percentage of women in academic positions and strongly encourages women scientists to apply. Moreover, the University seeks to apply for additional funds via the *Professorinnenprogramm* initiated by the federal ministry (BMBF) provided that the conditions for eligibility are satisfied.

Applicants must have a Ph.D in physics and a proven first-rate research record. Moreover, the formal regulations set out in § 49 *Hochschulgesetz Rheinland/Pfalz* must be fulfilled.

The Johannes Gutenberg-University promotes a concept of intensive tutoring and requests a high rate of presence at the University.

The University is an equal opportunity employer: Applicants with physical disabilities will receive preferential consideration if their qualification and experience are equal to those of other applicants.

Qualified candidates are asked to submit their application, including curriculum vitae, list of publications, description of teaching activities, list of successful third party grant applications, outline of current and future research activities, as well as reprints of up to five of their most important publications to the



**Johannes Gutenberg-Universität Mainz,
Dekan des Fachbereichs 08
- Physik, Mathematik und Informatik -,
D-55099 Mainz, Germany,
not later than October 15, 2008.**

Presently, Forschungszentrum Karlsruhe (FZK) and Universität Karlsruhe (TH) are merging their activities in the Karlsruhe Institute of Technology, KIT. Within the framework of KIT, applications are requested for the position of

**Scientific Director
of the Institute for Data Processing and Electronics
of the Forschungszentrum Karlsruhe in association with a**

**Professorship (W3)
at the Universität Karlsruhe (TH)**

Applicants should have an excellent scientific qualification and international reputation in at least one of the following areas:

- Real-time data processing
- Microprocessor systems and analogue electronics
- Embedded systems
- Software engineering for embedded systems

We expect from the candidate new impulses for the development of data recording systems for applications with high data rates and high time resolution. These systems shall be applied in the areas of astro particle physics and atmosphere and climate.

The personality to be appointed is expected to be highly capable of managing interdisciplinary projects and heading a large institute with diverse research tasks and is also expected to represent the above scope of topics also by teaching at one of the faculties of physics, electrical engineering and information technology or computer sciences. Candidates should have a university lecturing qualification or equivalent scientific degree.

Applications of women are strongly encouraged, as we wish to increase the proportion of females at the management level. Handicapped persons with equal qualification will be preferred.

Applications, including a CV, a list of publications, documents about previous research and teaching work as well as offprints of the five most important publications shall, up to **September 30, 2008** be addressed to:

**Forschungszentrum Karlsruhe GmbH
Dr. Peter Fritz, Director
P. O. Box 3640, 76021 Karlsruhe, Germany**

In addition, we would appreciate the submission of your application documents electronically. **E-mail: peter.fritz@vorstand.fzk.de**



University
of Glasgow

Department of Physics & Astronomy

EGEE/ScotGrid Technical Coordinator

£36,912 – £42,791

You will be the main technical contact for non-particle physics users, providing a range of core Grid services across Scotland, integrating existing Grid services with those across Europe and promoting the use of best practice in Grid use throughout Scotland.

Your role will be to manage core Grid services across Scotland by integrating existing services and deploying user tools appropriate for new users, supporting links across ScotGrid and the international EGEE network, developing best practice in technical user support across the Grid.

For informal discussions concerning this post please contact Prof. A.T. Doyle at: a.doyle@physics.gla.ac.uk Tel No: 0141 330 5899

For an application pack, please see our website at www.glasgow.ac.uk/jobs/vacancies or write quoting Ref 14499/DPO/A1 to Dr S Muir Scott, GRIDPP & ScotGrid Projects Administrator, PPE Group/Dept of Physics & Astronomy Room 477, Kelvin Building, University of Glasgow, Glasgow G12 8QQ.

Closing date: 12 September 2008.

The University is committed to equality of opportunity in employment. The University of Glasgow is a registered Scottish charity, number SC004401.

www.glasgow.ac.uk

Scottish University of the Year



Ruhr-Universität Bochum

The Faculty for Physics and Astronomy invites applications for a

**Full Professor (W3-Chair) position
for theoretical physics in the field
of hadron and particle physics
(successor to Prof. Goeke)**

We are looking for an outstanding physicist in the field of theoretical hadron and particle physics to complement the local theoretical and experimental activities. The new chaired professor will find an excellent research environment with the institute infrastructure of a large internationally recognized chair.

The successful applicant is expected to demonstrate a strong commitment to excellence in teaching physics on all levels, managerial and leadership skills, and willingness to participate in the self-administration of the University.

Applicants are expected to have a Ph.D. in physics and the "Habilitation" or an equivalent scientific qualification. Candidates at the level of Assistant Professor ("Juniorprofessor") will also be considered.

The Ruhr-University Bochum wishes to increase the proportion of female faculty in physics and therefore welcomes especially applications from qualified women. Handicapped persons with the same qualifications will be given preference.

Qualified candidates are invited to submit an application including C.V., publication list, list of teaching and research activities and copies of degree certificates by September 30, 2008 to **Dekan der Fakultät für Physik und Astronomie der Ruhr-Universität Bochum, D-44780 Bochum, Germany.**

Lecturer in Accelerator Physics

Salary: £36,927 - £43,679 per annum inclusive of London Allowance

Royal Holloway University of London (RHUL) and the UK Science and Technology Facilities Council (STFC) intend to make a joint Lecturer appointment in Accelerator Physics.

RHUL is part of the John Adams Institute for Accelerator Science; a joint venture between Oxford University, RHUL and STFC. The RHUL accelerator physics group is currently involved in projects at the ATF2 at KEK, CTF3 at CERN, PETRA3 at DESY and is building up activity in DIAMOND at STFC Harwell and the LHC at CERN. Our projects are currently built around expertise in laser based beam diagnostics, advanced RF systems, radiation physics and advanced simulation.

We are looking to make a Lectureship appointment to establish a vibrant joint programme of accelerator physics at Royal Holloway and STFC. You should have at least three years postdoctoral research experience and be developing an international reputation in the field. This is an excellent opportunity to be part of a growing joint programme and would suit someone who aspires to a leading role in a major national laboratory, while establishing a strong academic profile in one of the larger colleges of the University of London.

For an informal discussion about the post contact Professor Grahame Blair (g.blair@rhul.ac.uk).

Further details and an application form are available on line at www.rhul.ac.uk/personnel or from the Personnel Department, Royal Holloway, University of London, Egham, Surrey TW20 0EX; Tel: 01784 414241; Fax: 01784 274900; E-mail: recruitment@rhul.ac.uk
Please quote the reference KB/4583.

The closing date for receipt of applications is the 26th September 2008.

It is expected that interviews for this position will be held on 21st October 2008.

We positively welcome applications from all sections of the community.



The Faculty of Physics of the Technische Universität München invites applications for a

Full Professorship (W 3) for Experimental Astroparticle Physics

to be filled as soon as possible in an early replacement of an existing chair.

Position

The Position will have a focus on astroparticle physics and be embedded both in the Cluster of Excellence "Origin and Structure of the Universe" and the Physics Department of the TU München. The current research activities in the Excellence Cluster Universe include low energy neutrino-astronomy, neutrino-oscillations and the search for dark matter. The successful candidate is expected to have an internationally recognized expertise in astroparticle and/or neutrino physics and should complement the scientific interests of existing groups working in experimental particle and nuclear physics at accelerators. In addition, a strong and active engagement within the cooperative research center SFB/TR 27 "Neutrinos and Beyond" is anticipated. Furthermore, an active participation in the research program of the Maier-Leibnitz-Laboratory is desirable. The research campus Garching offers a range of possibilities for cooperation with internationally leading research institutions, such as the research reactor and local Max Planck Institutes.

Active participation in the teaching program of the Physics Department of the TU München will be required, including introductory courses as well as specialized lectures on particle/astro-particle physics.

Requirements

Formal requirements for the professorship are a diploma from a university or university of applied sciences, pedagogical qualifications and a PhD degree. Excellent research accomplishments that may have been gained also outside academia are obligatory. Postdoctoral teaching experience or a formal lecturing qualification is required. Applicants should not have passed the age of 52 at the time of nomination. Under certain circumstances, however, this age limit can be neglected.

Persons with disabilities will be given preference over other applicants with comparable qualifications.

The TUM is striving to increase the proportion of women in research and education. Therefore, female scientists are especially encouraged to apply for this position.

Application

Applicants should complete the web form found on www.universe-cluster.de (->jobs) or submit their application (including CV, credentials and documents, publication list and a short overview of research interests) before 15 October 2008 to the following address:

Technische Universität München
Dean of the Faculty of Physics
James-Franck-Straße
D-85748 Garching

Excellence Cluster Universe · www.universe-cluster.de



Lead physicist – Le Bourget du Lac, France

Scantech is an international company specialized in advanced on-line measurement and control systems for industrial applications. Our head office is located in France, about 1 hour drive from CERN, with additional sites in the Peoples Republic of China and the US.

We require a Physicist/Engineer with a suitable background in radiation sensors and detection systems to head our research and development department. The successful candidate will be qualified preferably to PhD level.

Working on our French site, in direct collaboration with company management, you will contribute to the creation of a new generation of innovative, market leading products. An important part of our product range is based on X-ray interactions: photoelectric absorption, fluorescence and backscattering. Therefore, the successful candidate should possess a real understanding of the underlying physics of ionizing radiation and in particular of x-rays. Experience in software development is also desirable.

You will have a degree in physical science or equivalent experience with a proven track record of successful development. You will intervene on the complete development cycle: design, dimensioning and specification of the equipment, choice and follow-up of suppliers, machine reception and support to end-customers. Knowledge of French and/or English is required.

Negotiable salary and benefits package.

To apply, please e-mail your CV and contact details to jan.gaudaen@scantech.fr or send them to Jan Gaudaen, Scantech, Savoie Technolac - BP244, 73374 Le Bourget du Lac, France
Phone +33(0)479252265



Forschungszentrum Karlsruhe
in der Helmholtz-Gemeinschaft



We are one of the biggest scientific and engineering research institutions in Europe. We cooperate with the University of Karlsruhe within the Karlsruhe Institute of Technology (KIT), a forward-looking concept for combining research and education.

The Institute for Synchrotron Radiation (ISS) is looking for outstanding candidates.

Scientist (f/m)

vacancy number 184/2008

You will be responsible for the development and implementation of energy-dispersive and imaging X-ray detectors. In addition, you will characterize and further develop 2D X-ray detectors for imaging X-ray methods and 2D scattering methods. This job is also suited for persons who wish to work part-time.

Applicants should have a university degree in electrical engineering or another engineering science as well as professional experience in analog and digital electronics. Other important details concerning this vacancy can be found on our homepage under Jobs/Training.

Scientist (f/m)

vacancy number 187/2008

You will be responsible for managing the Scattering and Nanostructure Characterization Group of the Scattering & Imaging Division. You will develop strategic concepts for methodological research, instrument development, and the application of scattering techniques. Moreover, you will conceive novel processes and instrument modern scattering techniques. You will manage current and acquire new projects as well as support external and internal groups of researchers.

Applicants should have a university degree in natural sciences or engineering, completed by a doctorate. Other important details concerning this vacancy can be found on our homepage under Jobs/Training.

Scientist (f/m)

vacancy number 188/2008

You will head the Imaging Group of the Scattering & Imaging Division. You will develop strategic concepts for methodological research, instrument development, and the application of X-ray imaging techniques. Moreover, you will design novel processes and instrument modern X-ray imaging methods. You will manage current and acquire new projects as well as support external and internal groups of researchers.

Applicants should have a university degree in physics or an engineering science, completed by a doctorate. Other important details concerning this vacancy can be found on our homepage under Jobs/Training.

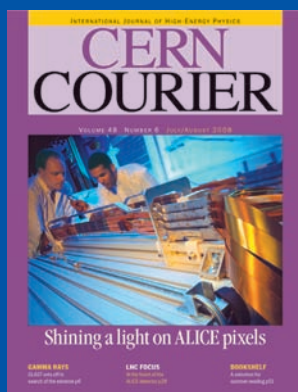
We offer a complex scientific task that is associated with a high degree of work autonomy, a variety of training options, and the use of latest technical equipment. We have been granted the Total-E-Quality Award, demonstrating that gender equality is important to us.

Kindly apply preferably online by 30th September 2008 or write to Mrs. Mäurer, HPS, phone +49 (0) 7247 82 5006 indicating the vacancy number. Technical information may be obtained from Prof. Dr. Baumbach, phone +49 (0) 7247 82 6820.

Forschungszentrum Karlsruhe GmbH - Hauptabteilung Personal und Soziales - Postfach 36 40 - 76021 Karlsruhe, Germany

www.fzk.de

Essential reading for the worldwide physics community



For more than 50 years, *CERN Courier* has reported on the latest developments in high-energy physics and related areas, including the new GRID computing projects.

Subscribe today to keep up to date with the progress in your field.

If you would like to apply for a free subscription, e-mail your name and address to anastasia.ireland@iop.org quoting "sub01".

IOP Publishing



NExT Institute

Five Permanent Fellowships/Lectureships in Particle Physics Phenomenology

Applications are invited for five permanent Fellowships/Lectureships in Particle Physics Phenomenology at the NExT Institute, a partnership involving the University of Southampton, University of Sussex, Royal Holloway University of London and the Rutherford Appleton Laboratory.

The NExT Institute aims to promote close interactions between theorists and experimentalists, giving theorists new opportunities for involvement with data analysis and experimental discovery. In addition to your scientific research, each NExT fellow/lecturer will be able to play a leading role in developing other NExT activities. These include an international visitor programme, a new graduate programme (PhD and MSc degrees), which will involve mixed (theoretical and experimental) training and supervision, networking across all nodes, student placements at the experiment locations and in industry, video-linked delivery of seminars and graduate lectures, annual workshops and a final graduate conference.

In the first five years each fellow will be associated with two NExT Institute nodes as follows: Rutherford-Royal Holloway, Royal Holloway-Sussex, Sussex-Southampton, Southampton-Rutherford and Southampton-Royal Holloway. During this time you will carry an initially reduced level of teaching duties, allowing an emphasis on research and the development of the Institute and it is expected that you will divide your time approximately equally between the two nodes concerned while also engaging with all four institutions. After the initial five years you will become full-time permanent lecturers at the School of Physics and Astronomy in Southampton (two posts), the Department of Physics in Royal Holloway (two posts) and the Department of Physics and Astronomy in Sussex (one post, associated with a new professorship in phenomenology).

You must hold a PhD in High Energy Particle Physics and should be theorists with a proven record in phenomenological research of direct relevance to experiment or experimentalists with a strong interest in theory and a background in Monte Carlo and/or data analysis. You must also have an established record of internationally recognised research and of relevant publications in renowned scientific journals. Preference will be given to candidates wishing to work with a Large Hadron Collider, linear collider, neutrino or neutron experiment on which members of the NExT Institute are active.

You will be able to capitalise on the large computational facilities available and to interact with the many visitors, PDRAs and students working at all institutions. Travel funds for networking activities within NExT and for visits to international laboratories will be made available.

Candidates interested in the positions that will eventually (i.e. after 5 years) be associated with Southampton should apply at <http://www.jobs.soton.ac.uk/> (Ref: 2512-o8-E), with RHUL at <http://www.pp.rhul.ac.uk/fellowships> and with Sussex at <http://www.sussex.ac.uk/tpp/lectureship.html>. Multiple applications by a candidate will also be considered, in which case you must make a separate application to each university concerned.

Applications should make clear the areas of research in which you are active or interested in becoming active, explain why you are suitable for the role described within the NExT Institute and how you envisage driving the NExT initiative forward in practical terms.

Applications made to one institution will be seen by all unless an explicit request otherwise is made. Informal contact can also be established: in Southampton with Dr Stefano Moretti (Stefano@soton.ac.uk), in RAL with Dr Claire Shepherd-Themistocleous (C.Shepherd@rl.ac.uk), in RHUL with Professor Mike Green (M.Green@rhul.ac.uk) and in Sussex with Dr Mark Hindmarsh (M.B.Hindmarsh@sussex.ac.uk).

The closing dates and salaries for these positions can be found at the member universities' websites. Interviews for all posts are expected to be held during the period 27 October 2008 to 7 November 2008, with posts starting as soon as possible thereafter.

Background. The New Experiment-Theory (NExT) Institute (<http://www.next-institute.ac.uk/>) was established in 2006 by Southampton and RAL and recently expanded to include RHUL and Sussex. This expansion took place under the auspices of the Higher Education Funding Council for England (HEFCE), following its award of a five-year grant of £12.5 million to bring together physics departments in the South East of England through the South East Physics Network (SEPNet). Through this initiative the NExT Institute has secured funding in excess of £1.5 million, where this total also includes a contribution from the Science & Technology Facilities Council (STFC).

(A hyperlinked version of this text can be found at: <http://www.next-institute.ac.uk/>)

CERN COURIER

October issue - LHC Special

To mark the official opening of the LHC, *CERN Courier* is publishing a special issue. This will include a collection of articles from over the years, a look at the conception to completion of the LHC and a photo diary. It will be distributed not only to all regular readers of *CERN Courier*, but also to all attendees of the opening ceremony, which will include heads of state, ambassadors, government ministers and senior figures from all countries and member states involved in the LHC project and its funding.

This is your best opportunity to promote your company and vacancy at this high-profile event.

To book or for further information, contact Moo Ali (tel +44 (0)117 930 1264, e-mail moo.ali@iop.org).

October issue: **booking deadline** Friday 5 September; **copy deadline** Monday 8 September; **Distribution** Wednesday 17 September.



BESSY operates one of the world's most modern synchrotron radiation sources for VUV and soft X-rays, delivering high quality synchrotron radiation to more than 1.300 international users annually. We are further planning for a Free Electron Laser (BESSY-FEL) to generate ultimate quality VUV and soft X-rays for future short pulse and high brilliance experiments.

To have the continuing ability to guarantee world class beam conditions paired with a competitive availability of the source we are developing an accelerating cavity with damped higher order modes and a new kind of injection magnets. To support the accelerator group in this field we look for a

Ph.D. Physicist

Ref. No: M-EF 08

The position is to calculate electromagnetic fields in frequency and time domain for complex accelerator components and perform experiments for their verification.

Candidates should have experience in the numerical calculation of electromagnetic fields using the most advanced 3D computer codes. Fundamentals in accelerator physics or experiences in accelerator operation are appreciated.

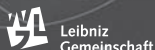
Enquiries should be directed to Dr. Ernst Weihreter, Tel: +4930-63924634, E-mail: weihreter@bessy.de

Initially, we offer a three year appointment funded according to the German TVöD. Women are especially encouraged to apply. Handicapped persons will be given preference to other applicants with the same qualification.

E-mail applications will not be accepted. To apply, please send a cover letter and other application documents to:

**Berliner Elektronenspeicherring-Gesellschaft
für Synchrotronstrahlung m.b.H. (BESSY)
Personalverwaltung
Albert-Einstein-Str. 15, 12489 Berlin, Germany**

www.bessy.de



The Institute for Applied Physics, Johann Wolfgang Goethe-University Frankfurt, invites applications to fill the following position:

Full Professorship (W3) in the Field of Experimental Astrophysics

The successful candidate is expected to have established an international reputation in this field of research and have a publication record in at least one of the following areas: 1.) Observational cosmology, 2.) Star phenomena and nucleosynthesis in stars, 3.) Development of novel particle and radiation detectors, as well as data analysis for astrophysics.

The research facility GSI in Darmstadt, with their current project FAIR, and the intense neutron generator FRANZ in Frankfurt provide the successful candidate with possibilities to participate in high-level experiments with astrophysical relevance. In addition, there are many potential collaboration partners, both on-site with the Institute for Theoretical Physics and the Institute for Nuclear Physics, as well as with the astrophysicists at GSI Darmstadt. The Institute for Applied Physics is currently conducting the construction of FRANZ and offers cooperation via research activities in accelerator and plasma physics, in image processing and properties extraction as well as with the technical infrastructure in the areas of mechanics and electronics. The candidate is expected to be very interested in the accelerator-based astrophysical experimental program.

Moreover, the candidate should have obtained a habilitation or equivalent achievements in the field of experimental astrophysics and should document a successful active participation in international collaborations. Good social and teaching skills will be required to take part in teaching programs at all levels (Bachelor, M.Sc, PhD), with emphasis on developing the courses in the field of astrophysics (currently very well attended).

This position is initiated by the new Helmholtz International Center -HIC for FAIR- within the Hessian initiative of excellence LOEWE. An active contribution to this research activity is necessary.

The designated salary for the position is based on "W" on the German university scale or equivalent. The Goethe University is committed to a pluralistic campus community through affirmative action and equal opportunity. For details see: www.uni-frankfurt.de/aktuelles/ausschreibung/professuren/index.html.

Applications accompanied by the usual information (CV, degrees and certificates, list of publications, details on teaching and international experience, information on successful grant applications, all as pdf-files), should be sent via e-mail within **four weeks** of publication of this announcement to **Johann Wolfgang Goethe-Universität, Dean of the Faculty of Physics, Max-von-Laue-Str. 1, D-60438 Frankfurt am Main, Germany, dekanat@physik.uni-frankfurt.de**.

www.uni-frankfurt.de



Universität Karlsruhe (TH)
Forschungsuniversität · gegründet 1825



Karlsruhe Institute of Technology

The **Fakultät für Physik** at the Universität Karlsruhe (TH) invites applications for the position of a

Junior-Professor for Theoretical Physics (W1, tenure track)

at the Institute for Theoretical Physics. Promotion to a tenured W3 position is possible after successful evaluation.

The applicant should conduct an active research program in theoretical particle physics. Expected are experience and significant achievements in physics beyond the standard model, in the development of novel field-theoretic techniques or in the phenomenology of elementary particle physics, with emphasis on collider physics.

The position offers excellent opportunities for collaboration within the Department of Physics, with other departments of the University and with the Forschungszentrum Karlsruhe in the framework of the Karlsruhe Institute of Technology (KIT). This includes the "KIT Centre for Elementary Particle and Astro-Particle Physics" (KCETA), the Transregional Collaborative Research Center SFB/TR9 "Computational Particle Physics" and the Research Training Group GRK 742 "High Energy Physics and Particle Astrophysics".

Applicants should have completed a course of studies in physics and should hold a PhD in physics. Teaching duties include lecture courses in physics for students of physics and also for students of other natural sciences or engineering disciplines.

Initially, the position is a limited term appointment for a three-year duration which can be renewed for a second three-year period after successful evaluation. After six years and positive final evaluation, advancement to a W3 professorship is possible.

The University aims to increase the number of female professors and especially welcomes applications from women. Handicapped persons with equal qualifications will be preferred.

Applications with the usual credentials as well as information on the five most important publications and a statement about past and planned research and teaching activities should be sent before **October 10, 2008** to: **Universität Karlsruhe (TH), Dekan der Fakultät für Physik, D-76128 Karlsruhe, Germany**.



The HEP group at the University of Cincinnati has an opening for a

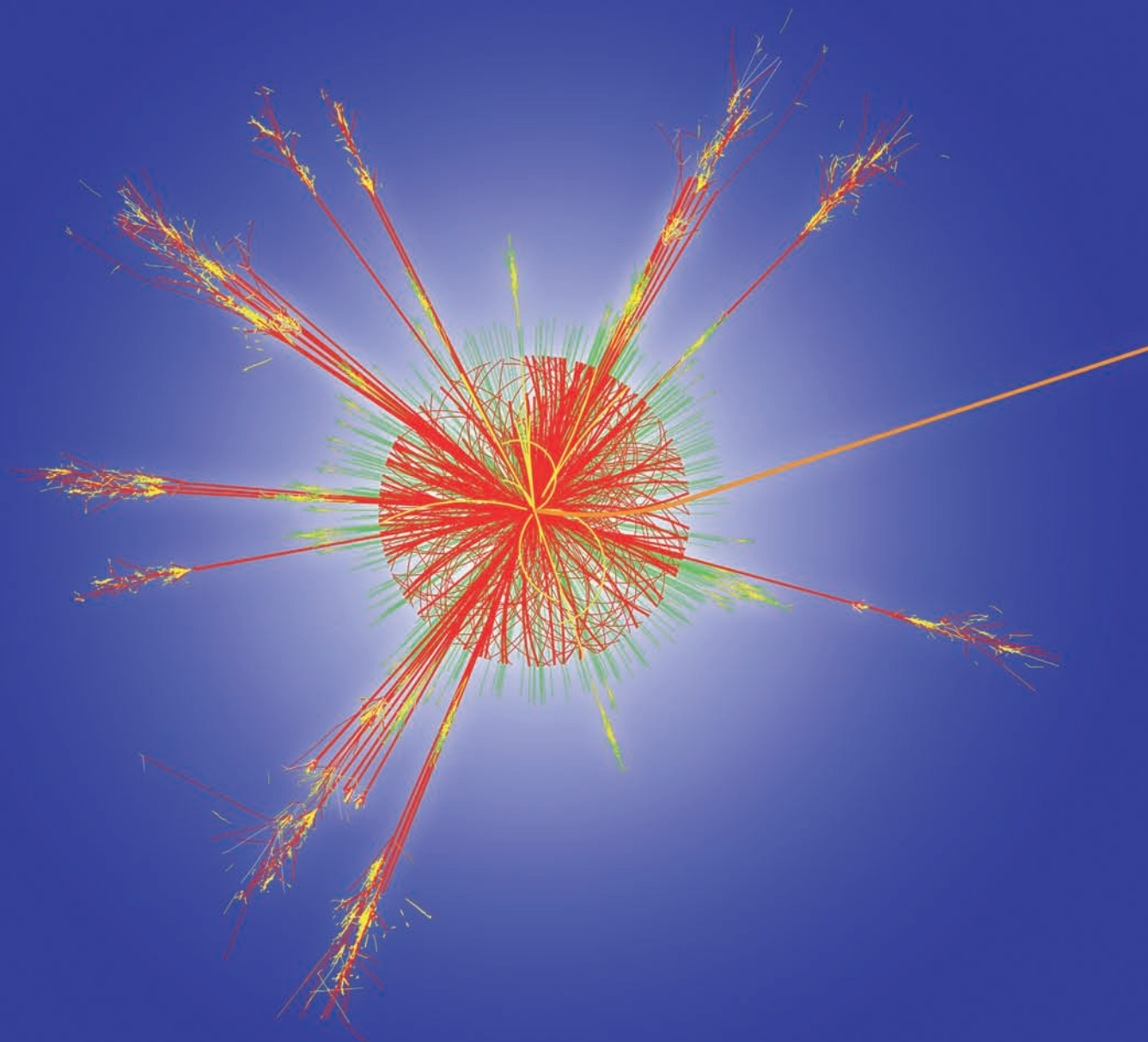
POSTDOCTORAL RESEARCH ASSOCIATE ON THE BELLE EXPERIMENT AT KEK.

The initial appointment is for two years with the possibility of renewal. The Cincinnati Belle group (two faculty members, two postdocs, students) is involved in numerous analyses: measurement of the CKM angle α via $b \rightarrow u$ decays; measurements of D^0 - $\bar{D}^0$ mixing; measurements of polarization in $B \rightarrow VV$ decays; and studies of B_s decays using data taken at the $\Upsilon(5S)$ resonance. Belle has the world's largest samples of reconstructed B and D decays. The experiment will take data until 2009, when Belle/KEKB is scheduled to be upgraded to a "Super B-factory."

Applicants should apply at <https://www.jobsatuc.com>, posting 28UC0175, and arrange to have three letters of recommendation sent to:

Prof. Alan Schwartz, Physics Department, University of Cincinnati, P.O. Box 210011, Cincinnati, Ohio 45221.

cerncourier.com



Your free online resource for articles from the print magazine, covering worldwide developments in particle physics, scientific computing and other related areas.

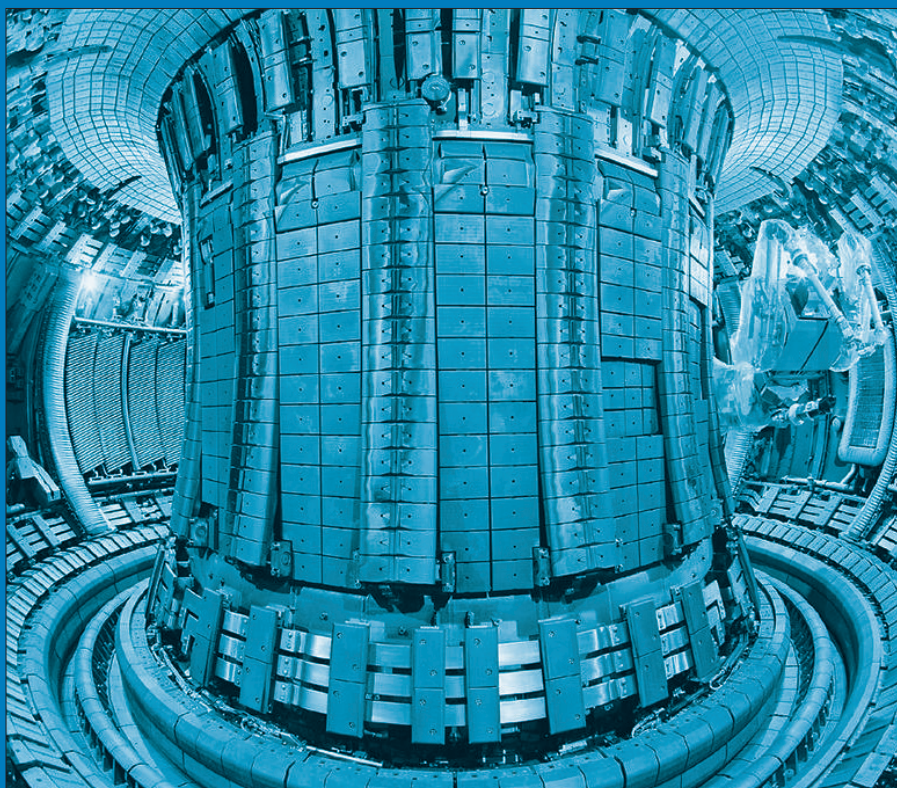
cerncourier.com

Image supplied by CERN

IOP Publishing

Supplement on Fusion Technology

NEW TO PHYSICS WORLD IN 2008



Photograph courtesy of Aaron Gage at EFDA-JE

This October *Physics World* will be publishing an all-new supplement focusing on fusion technology. In addition to the regular circulation, the supplement will be sent to individuals involved in fusion projects around the world and for the next 12 months will be distributed at targeted events, such as the 22nd IAEA Fusion Energy Conference.

This is a great opportunity to promote your product or company on an international scale and with guaranteed exposure to the industry's decision makers.

To book your space in the supplement, contact our sales team before **17 September**.

Tom Houlden
Tel +44 (0)117 930 1219
E-mail tom.houlden@iop.org

IOP Publishing