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INDIANA UNIVERSITY

Senior-Level Faculty Position in Experimental Nuclear Physics

The Department of Physics at Indiana University invites applications for a senior-level faculty position in experimental nuclear physics for an anticipated appointment beginning Fall 2008. We seek an outstanding scientist, an intellectual leader in the field who is interested in joining one of the top nuclear physics groups in the US. A commitment to excellence in teaching at the undergraduate and graduate level is essential. Current research activities of the group include high energy spin physics, hadron structure studies with neutrinos and polarized protons, neutrino oscillation physics, spectroscopy of exotic hadrons, fundamental neutron physics, and several electric dipole moment searches. We expect the successful candidate will expand our research in new directions, and applications from all areas of nuclear physics are welcome. The experimental nuclear physics group is a key part of the Indiana University Cyclotron Facility (IUCF), a multipurpose laboratory which conducts and supports basic research in nuclear physics, nuclear chemistry, accelerator physics, condensed matter and the life sciences.

Interested candidates are encouraged to contact Professor Mike Snow at snow@iucf.indiana.edu or (812)-855-7914, and to submit a letter of application, current curriculum vitae and arrange for submission of a minimum of six letters of reference to Kathy Hirons at khirons@indiana.edu (or by mail to **Professor Mike Snow, Faculty Search, Department of Physics, 727 E. 3rd St., Bloomington, IN, 47405-7105**).

Further information about the IU Physics Department and IUCF can be found at <http://www.physics.indiana.edu> and <http://www.iucf.indiana.edu>.

Indiana University is an Affirmative Action, Equal Opportunity Employer committed to excellence through diversity. The University actively encourages applications of women, minorities, and persons with disabilities.

EXPERIMENTAL HIGH ENERGY PHYSICS

The Physics Department and the Enrico Fermi Institute at the University of Chicago invite applications for a tenure-track faculty appointment in Experimental High Energy Physics. We are encouraging applications from candidates with recognized accomplishments in areas such as collider physics and neutrino physics. The successful candidate is expected to establish an independent research program while effectively contributing to the Department's undergraduate and graduate teaching programs.

The appointment is expected to be at the Assistant Professor level. Appointment at the level of Associate Professor or Full Professor is possible for exceptionally well qualified candidates. Applicants should submit a curriculum vitae and a brief research statement, and arrange to have three reference letters sent, to:

**Prof. Robert Wald, Chair, Department of Physics,
University of Chicago, 5720 S. Ellis Ave, Chicago, IL 60637
E-mail should be sent to Ms. Pat Plitt at p-plitt@uchicago.edu.**

Review of applications will start in the fall, 2007, and will continue until the position is filled. To ensure full consideration, applications should be received no later than November 1, 2007.

The University of Chicago is an equal opportunity, affirmative action employer.



THEORETICAL HIGH ENERGY PHYSICS

The Physics Department and the Enrico Fermi Institute at the University of Chicago invite applications for a tenure-track faculty appointment in Theoretical High Energy Physics. We are encouraging applications from candidates with recognized accomplishments in areas such as: physics of the standard model and beyond; collider physics; and particle cosmology. The successful candidate is expected to establish an independent research program while effectively contributing to the Department's undergraduate and graduate teaching programs.

The appointment is expected to be at the Assistant Professor level. Appointment at the level of Associate Professor or Full Professor is possible for exceptionally well qualified candidates. Applicants should submit a curriculum vitae and a brief research statement, and arrange to have three reference letters sent, to:

**EFI Search Coordinator, Enrico Fermi Institute Director's Office,
University of Chicago, 5640 Ellis Ave, Chicago, IL 60637
E-mail should be sent to the EFI Search Coordinator,
efisrch@ulysses.uchicago.edu.**

Review of applications will start in the fall, 2007, and will continue until the position is filled. To ensure full consideration, applications should be received no later than November 1, 2007.

The University of Chicago is an equal opportunity, affirmative action employer.



Massachusetts Institute of Technology

It takes everyone at MIT to be MIT.

Postdoctoral Associate

The Laboratory for Nuclear Science at MIT invites applications for one or more postdoctoral research associate positions with the Hadronic Physics Group. There are currently opportunities to participate in experiments addressing several important physics issues. These opportunities include: the use of parity-violating electron scattering (JLab and Mainz) to measure the weak charge of the proton and as a precision Standard Model test; the use of photopion and other reactions (JLab, HIGS) to study chiral symmetry breaking in QCD; an experiment (MIT) to study the neutron-proton radiative capture process at the very low energies relevant to the epoch immediately following the Big Bang, to test theories of the formation of the lightest elements; and a very sensitive search (Oak Ridge) for a non-zero value of the neutron electric dipole moment, which is a crucial test for physics beyond the Standard Model.

A Ph.D. in experimental nuclear or particle physics is required. Please send a curriculum vitae, publication list, and three letters of recommendation to:

**Professor Robert P. Redwine
Room 26-453
Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, MA 02139-4307**

You may also email resumes to redwine@mit.edu

MIT is an equal opportunity/affirmative action employer. Applications from women, minorities, veterans, older workers, and individuals with disabilities are strongly encouraged.

<http://web.mit.edu>



Forschungszentrum Karlsruhe
in der Helmholtz-Gemeinschaft



Universität Karlsruhe (TH)
Research University • founded 1825



Forschungszentrum Karlsruhe, member of the Helmholtz-Association of German Research Centres is one of the largest national laboratories in Germany with major activities in the research areas Energy and Atmosphere, Nano- and Microtechnology and Structure of Matter. Forschungszentrum Karlsruhe and University of Karlsruhe (TH) are currently merging their activities under the roof of the Karlsruhe Institute of Technology, KIT.

KIT invites applications for the joint positions of

**Scientific Head of the Institute for Scientific Computing
at the Forschungszentrum Karlsruhe**

and

**Professor (W3) for Parallel and Distributed High Performance Systems
at the University of Karlsruhe (TH)**

The Institute for Scientific Computing, IWR, of the Forschungszentrum Karlsruhe operates the central computing centre of the Forschungszentrum to serve the IT-demands of its various research programmes within the Helmholtz-Association of German research centres. IWR also runs the Grid Computing Centre Karlsruhe, GridKa, the central European node in the worldwide computing and data grid of the international elementary particle physics activities and is the driving force for the development of Grid computing in Germany.

In the framework of KIT the computing centres of Forschungszentrum and Universität Karlsruhe are merged to the Steinbuch Centre for Computing, SCC, to become one of the leading German scientific computing centres. The head of the IWR will be member of the directorate of the Steinbuch Centre for Computing. The SCC is linked to all research areas of KIT as a service and research partner and is involved in numerous national and international scientific computing projects. Applicants therefore apart from their scientific expertise should have appropriate application experience.

The scientific profile of the candidate in the field of "Parallel and Distributed High Performance Systems" should cover the following topics:

- grid computing
- development and evaluation of appropriate architectures, protocols and policies for grid computing
- quality management and performance management in distributed environments
- decentralized and self-organising solutions
- integrated service-oriented architectures
- virtualisation concepts

Candidates are expected to have internationally recognized scientific standing, the willingness for interdisciplinary collaboration and the ability to lead a large research and service institute. The holder of the chair will give lectures on the above mentioned topics at the KIT.

We are an equal opportunity employer, but as we wish to increase the proportion of females in higher management we especially encourage qualified women to apply for this position. If applicants are equivalently qualified, handicapped candidates applicants will be selected preferentially.

Applications with CV and publication list should be sent to **Prof. Dr. Reinhard Maschuw, Member of the Executive Board of Forschungszentrum Karlsruhe, P.O. Box 3640, 76021 Karlsruhe, Germany** by **30 September 2007**. Information on the candidate's previous experience in research and education as well as reprints of five major publications should be enclosed.

Internet: www.fzk.de

The Strategic Helmholtz Alliance "Physics at the Terascale" (<http://www.terascale.de>) is a research network supported by the Helmholtz Association and comprises the research centres DESY and FZ Karlsruhe, 17 German universities, and the Max-Planck Institute for Physics. In the framework of the worldwide endeavour of studying the foundations of matter using accelerators with highest energies, the Alliance will sustainably bundle and advance the expertise and strengths of the participating institutes.



In the Institute for Nuclear and Particle Physics at the Faculty of Science we have an immediate opening for a tenure track

Helmholtz Junior-Professorship (W1) in Experimental Particle Physics

The successful applicant will lead a "Young Investigator Group" of the Helmholtz Alliance. He/she will be engaged in data analysis of the ATLAS experiment at the LHC as well as in detector R&D for the "International Linear Collider", ILC. Close collaboration is expected with the research groups on experimental and theoretical particle physics and with the electronics lab of the institute. The candidate is expected to participate in general teaching activities of the Department of Physics and especially in teaching of the advanced level courses in "Nuclear and Particle Physics".

We are looking for applicants with a Ph.D. in experimental particle physics, whose excellent achievements as a Post-Doc in an international particle physics collaboration qualify them as a leader of a "Young Investigator Group". The group will be funded from the Helmholtz Alliance.

Employment prerequisites are in accordance with the Saxony University rules and regulations (§ 46 Saxony University Statutes - new version). Accordingly, the candidate will have completed a university degree, have the educational qualifications, as well as specialized knowledge in research work (normally an excellent doctorate /PhD). Junior Professors will be offered up to a four year contract. This contract, after a positive intermediate evaluation, can be extended for a total of up to 6 years (§ 45 of the Saxony University Statutes - new version). Subject to a successful final evaluation a tenured position of a senior staff scientist will be granted at the institute after the end of the Junior-Professorship. Applications for professorships within Technische Universität Dresden are possible after the successful intermediate evaluation in line with the rules of the Saxony University Statutes.

Applications from women are particularly welcome. The same applies to the disabled. Please submit your application together with your CV, your scientific employment record, list of publications, copies of the certificate of your highest academic degree and copies of 5 publications before **October 15, 2007** in electronic form to prodekan@physik.tu-dresden.de (note, that currently no receipt of digitally signed or encrypted documents is possible) and in written form to:

TU Dresden, Dekan der Fakultät Mathematik und Naturwissenschaften, Herrn Prof. Dr. M. Ruck, 01062 Dresden, Germany.



The **Institute for Theoretical Physics** at the **University of Karlsruhe (TH)** has an opening in **Theoretical Particle Physics** for the

Leader of a Young Investigator Group on Monte Carlo Development

We are looking for a theoretical physicist with expertise in collider physics and the development of parton shower and hadronization Monte Carlo programs who will head a new Young Investigator Group which is being established at the Institute for Theoretical Physics within the Helmholtz Alliance *Physics at the Terascale*. The applicant should have a strong research background with several years of postdoctoral experience in particle physics phenomenology and Monte Carlo development for physics at the Large Hadron Collider.

The position is funded by the Helmholtz Alliance until June 2012 and remunerated according to the TVöD regulations for scientific employees. After this date, the position may become that of a permanent scientific employee at the Institute for Theoretical Physics. The position can be filled January 1, 2008.

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

Interested candidates are requested to submit their CV, description of professional experience and a statement about past and planned research activities before **November 1, 2007**, and should arrange for two letters of recommendation. Applications should be sent to

Frau Renate Weiss
Institut für Theoretische Physik
Universität Karlsruhe (TH)
D-76128 Karlsruhe
Phone: +49 721/608-2081 Fax: +49 721/608-3582
E-Mail: weiss@particle.uni-karlsruhe.de
For further information please contact Prof. D. Zeppenfeld
Phone: +49 721/608-3553
E-Mail: dieter@particle.uni-karlsruhe.de



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

Fakultät für Physik

The Department of Physics of Georg-August-Universität Göttingen

Invites application for a

Helmholtz-Juniorprofessorship (Salary scale W1 BBesO)

of Theoretical Physics, in particular High Energy Particle Physics and Phenomenology

to be filled by January 1, 2008 (temporary appointment into civil service for an initial period of 3 years with a possible extension of another 3 years).

The successful applicant is expected to do research in the fields of Phenomenology of elementary particles and Physics at the Terascale

The objects of research are to supplement the current and future range of research topics of the group Experimental Particle Physics in the Department of Physics in the field of elementary particle physics at the Terascale (at LHC and ILC) and be closely integrated into the Helmholtz Alliance on "Physics at the Terascale". The successful candidate is expected to take part in teaching the subject of theoretical physics (Bachelor's and Master's courses) as well as the specialization subject of particle physics.

Preconditions for appointments are laid down in § 30 of the Law on Higher Education of Lower Saxony of February 26, 2007 (official law gazette of Lower Saxony, Nds. GVBl 5/2007, p. 69). In case the completion of the doctorate was preceded or followed by employment as an academic assistant or collaborator, the period of the doctorate and the period of employment together should not exceed six years.

Further details can be obtained on request.

We explicitly welcome applications from abroad.

Under certain circumstances part-time employment is possible. Disabled persons with corresponding aptitude for the position will be favoured. The University strives to increase its proportion of female staff and expressly encourages qualified women to apply.

Applications, including a CV, a description of your teaching and research track record, a list of publications and a list or reprints of the five most important publications are requested by **October 15, 2007** and should be sent to

Georg-August-Universität Göttingen
Fakultät für Physik
Der Dekan
Friedrich-Hund-Platz 1
37077 Göttingen

The Faculty of Mathematics and Natural Sciences I of Humboldt University Berlin at the Institute of Physics has an opening for a

Helmholtz Junior-Professorship (W1) for "Phenomenology of Elementary Particle Physics beyond the Standard Model" starting January 1st, 2008.

The successful applicant will conduct research and teaching in the area of theoretical elementary particle physics. Preferred areas of research are model building and phenomenology beyond the standard model and/or precision calculations of scattering processes with modern techniques.

The candidate is expected to meaningfully complement the existing research activities in theoretical particle physics and to support the accelerator based experimental elementary particle physics at the institute. Her/his activities should be closely integrated into the Helmholtz-Alliance 'Physics at the Tera Scale'. Co-operations with DESY, Zeuthen and the Collaborative Research Center 647 'Space-Time-Matter' are desired. The successful applicant is expected to participate in the general teaching duties of the institute at the undergraduate and graduate level in the subject of theoretical physics.

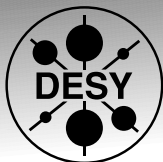
Applicants have to fulfil the employment requirements for junior-professors according to Berlin University law §102a.

Humboldt University Berlin intends to increase the number of women in research and teaching and particularly encourages female scientists to apply. Applications of scientists from abroad are particularly welcome. In case of equal qualifications handicapped applicants will be favoured.

Please submit your applications including the standard documents along with a short research statement referring to opening number JP007/07 to the

Dean of the Faculty of Mathematics and Natural Sciences I, Prof. Dr. Limberg, Unter den Linden 6, D-10099 Berlin, Germany. Deadline is **October 1, 2007**. For further information on junior-professorships as well as on the tenure track procedure for a possible W2/W3 professorship appointment see http://forschung.hu-berlin.de/research/young_scientists/juni-professuren/





DESY is one of the leading accelerator centres worldwide engaged in exploring the structure of matter. The main research areas range from various synchrotron radiation applications and elementary particle physics to the construction and use of X-ray lasers.

Particle accelerators produce high intensive radiation for most diverse innovative applications. By the forthcoming upgrade of the PETRA storage ring into a 3rd generation synchrotron light source, the operation of the free-electron laser FLASH and the construction of the European XFEL DESY will take up an international top position in research with photons. Amongst others X-ray free-electron laser research opens a new area of time resolved and coherent X-ray scattering applications. We are seeking to recruit a

Scientist (Ph.D.)

for the conception, planning and realization of the XFEL experiments in the field of coherent X-ray diffraction/coherent X-ray imaging/X-ray photon correlation spectroscopy. The successful candidate will prepare and carry out experiments at the Linac Coherent Light Source (LCLS) at SLAC/Stanford, USA and at the FLASH in operation at DESY in Hamburg. This work will be an important precursor for experiments at the future European XFEL facility in Hamburg.

Candidates should hold a Ph.D. in physics or in a related field and have a proven record in synchrotron radiation research. Experience with time resolved and coherence based X-ray experiments (imaging or correlation spectroscopy) will be of advantage. In the first phase of the project (years 1-3) work will mostly be located at LCLS/SLAC. Preparative work may also be carried out at modern 3rd generation storage ring light sources or laboratory based X-ray lasers. A possible extension of the work done in Stanford implies a shift of the centre of the activities to the FLASH and XFEL facilities in Hamburg. If you are interested in this position, please send your complete application papers quoting the reference code to our personnel department. You may also contact G. Gruebel (gerhard.gruebel@desy.de) for further information.

The position is limited to 3 years with the possibility of 2 years extension.

Salary and benefits are commensurate with those of public service organisations in Germany. DESY is an equal opportunity, affirmative action employer and encourages applications from women. DESY has a kindergarten on site.

Deutsches Elektronen-Synchrotron DESY

Member of the Helmholtz Association
Code: 98/2007 · Notkestraße 85 · D-22607 Hamburg · Germany
Phone: +49 40/8998-3392 · www.desy.de
E-Mail: personal.abteilung@desy.de

Deadline for applications: October 5, 2007

Lecturer/Senior Lecturer in High Energy Physics (Job Ref: 0023)

Imperial College has been ranked in the top ten universities of the world, according to the 2006 Times Higher Education Supplement league tables.

Applications are invited for a permanent appointment at Lecturer or Senior Lecturer level in High Energy Physics.

The Imperial High Energy group has a broadly based experimental programme embracing CMS, LHCb, D0, Babar T2K, SuperNEMO, detector development with CALICE and CMS, accelerator science with MICE and e-science with GridPP. You will join the CMS team with initial emphasis on the CMS analysis activity.

You will have a PhD in experimental particle physics and expertise in extracting and publishing results.

Previous experience leading an analysis team would be advantageous as would an appreciation of the sub-detector technologies in use with CMS. You will be based on the Imperial College London South Kensington site and will teach at undergraduate and postgraduate level.

A starting date of 1 January 2008 is anticipated. Salary will be in the range £38,880 to £43,420 for an appointment at Lecturer level and a minimum of £47,960 at Senior Lecturer level.

Further particulars and an application form are available from:

<http://www.imperial.ac.uk/employment/academic/index.htm> or Ms Paula Brown, (email: paula.brown@imperial.ac.uk). Completed applications should include (1) a curriculum vitae, (2) a list of publications, (3) a statement of research interests and (4) the names and addresses of three referees.

Applications should be sent to Ms Paula Brown, Blackett Laboratory, Imperial College London SW7 2AZ, UK.

Further details on the post can be obtained from Prof Peter Dornan FRS. Email: p.dornan@imperial.ac.uk

Closing date for applications 5 October 2007.

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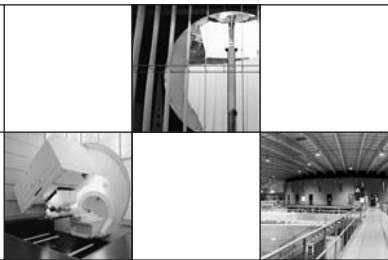
With the internet now the first choice for people searching for new jobs, you need to include **Jobs Watch**, the online jobs directory on cerncourier.com, in your recruitment campaign.

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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Das Paul Scherrer Institut ist ein multidisziplinäres Forschungszentrum und ein weltweit führendes Benutzerlabor. Mit seinen rund 1200 Mitarbeitenden gehört es als selbstständige Institution zum ETH-Bereich und konzentriert sich auf die Gebiete Festkörperforschung und Materialwissenschaften, Elementarteilchenphysik, Energie- und Umweltforschung sowie Biologie und Medizin.

Am PSI werden mit dem weltweit leistungsstärksten Protonenbeschleuniger hochintensive Mesonen- und Neutronenstrahlen für vielseitige Experimentieranlagen erzeugt. Ein Schwerpunkt der Sektion Targetanlagen und Aktivtechnik ist die Entwicklung, Realisierung und Betreuung der Hochleistungstargets für die Mesonen- und Neutronenproduktion. Für den Ausbau der Anlagen zu höheren Strahlleistungen suchen wir eine/n

Physiker/in

Ihre Aufgaben

Die Tätigkeit umfasst die Konzeption, Systembetreuung und Weiterentwicklung der Targetanlagen für die Mesonenproduktion. Für die technisch-physikalische Auslegung der Targets, Kollimatoren und des Strahlfängers verwenden Sie CAE – Programme für die Simulation der thermomechanischen Struktur und zur Lösung von thermohydraulischen Problemstellungen sowie Monte-Carlo Programme für die Berechnung der Wechselwirkungen der Materialien mit dem Protonenstrahl. Bei Bedarf spezifizieren Sie Versuchsaufbauten zur experimentellen Abklärung wichtiger Betriebsparameter und zur Messung komplexer Materialeigenschaften. Sie besuchen regelmässig internationale Konferenzen und publizieren die Ergebnisse Ihrer Arbeit in Fachzeitschriften. Innerhalb Ihres Fachgebietes haben Sie die Möglichkeit zur Teilnahme an EU-Projekten.

Ihr Profil

Sie sind ein/e praktisch veranlagte/r promovierte/r Physiker/in mit guten Grundlagenkenntnissen in Kernphysik und haben einen starken technischen Background mit Schwerpunkt Thermohydraulik und Strukturmechanik sowie Erfahrung in der Anwendung numerischer Simulationsverfahren, insbesondere der Finite Element Methode (FEM) und der Strömungsmechanik (CFD). Sie haben das Potenzial neue Ideen einzubringen und Zielsetzungen zu definieren. Als teamorientierte und kommunikative Persönlichkeit arbeiten Sie gerne in einer interdisziplinär zusammengesetzten Gruppe. Sie arbeiten selbstständig und verfügen über Eigeninitiative, Hilfsbereitschaft und Praxisorientierung. Gute Englisch- und Deutschkenntnisse sowie die Bereitschaft zum Aufenthalt in kontrollierten Zonen runden Ihr Profil ab.

Wir freuen uns auf den Kontakt mit Ihnen.

Herr Dr. Gerd Heidenreich, Tel. +41 (0)56 310 35 84,
E-Mail: gerd.heidenreich@psi.ch oder Frau Dr. Sabine Teichmann,
Tel. +41 (0)56 310 43 75, E-Mail: sabine.teichmann@psi.ch
beantworten gerne Ihre Fragen.

Ihre schriftliche Bewerbung senden Sie bitte bis 31.10.2007 an:
Paul Scherrer Institut, Personalabteilung, Herr Thomas Erb,
Kennziffer 8590, 5232 Villigen PSI, Schweiz.

Weitere Informationen: www.psi.ch

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

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