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The Abdus Salam
**International Centre
for Theoretical Physics**

Condensed Matter and Statistical Physics Section (CMSP Section)
tel.: +39-040-2240540, fax: +39-040-22407540 or 224163, e-mail: cm@ictp.it
<http://www.ictp.it/pages/research/cmssp.html>

**THEORETICAL CONDENSED MATTER AND STATISTICAL PHYSICS (CM&SP) POST-DOCTORAL POSITIONS
AT THE ABDUS SALAM INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS (ICTP) TRIESTE, ITALY
(ACADEMIC YEAR 2013-2014)**

The current research areas of the ICTP CMSP Section include disordered quantum many-body systems, quantum Monte Carlo simulations of ultra-cold gases: BEC-BCS crossover in strongly interacting Fermi gases, low-dimensional and/or disordered Bose gases; physics of nano-devices; statistical physics of complex systems and interdisciplinary applications; random matrix theory and its applications; density functional theory based investigations of structural, electronic and optical properties of materials, in particular in the field of renewable energy storage and conversion; development of efficient algorithms for the computation of electronic excitations in nanoscale systems.

A limited number of post-doctoral positions for young CM&SP theoreticians will be available starting Fall 2013.

Appointments will be made for two years, with the possibility of renewal for one more year.

Applicants should be no more than 35 years of age at the time of application and should have obtained their Ph.D. after 2008. The application form can be accessed at the website: <https://onlineapps.ictp.it/ENTER/APPLICANT/CP12.mhtml>

Additional detailed curriculum vitae, list of publications and at least three recommendation letters (sent separately after submission of application) must all be appended on-line.

Deadline for receipt of applications: 13th January 2013.



Accelerators | Photon Science | Particle Physics
 Deutsches Elektronen-Synchrotron
 A Research Centre of the Helmholtz Association



THEORETICAL ASTROPARTICLE PHYSICS.

**DESY, Zeuthen location, is seeking:
Scientist (f/m)**

DESY

DESY is one of the world's leading accelerator centres for investigating the structure of matter. DESY develops, builds and operates large accelerator facilities for photon science and particle physics and astroparticle physics.

The theoretical astroparticle physics group at DESY has an opening for a permanent staff member. We are particularly interested in a scientist working in one of the following areas:

- Radiation modeling of nonthermal sources
- Indirect search for dark matter
- Particle acceleration and transport processes

The position

- Research in theoretical astroparticle physics
- Participation in group leadership

Requirements

- Ph.D. in physics or equivalent; at least 3 years of postdoc experience
- Excellence in research
- Experience in the supervision of junior researchers

Applications should include a CV, a statement of research interests, a list of publications, and the names and contact info of at least 2 references.

For further information you may also contact Prof. Dr. Martin Pohl
 Tel.: +49 33762-77484, martin.pohl@desy.de.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. DESY operates flexible work schemes. Handicapped persons will be given preference to other equally qualified applicants. DESY is an equal opportunity, affirmative action employer and encourages applications from women.

Please send your application quoting the reference code,
 also by E-Mail to:

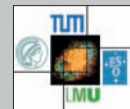
Deutsches Elektronen-Synchrotron DESY
 Human Resources Department | Code: EM188/2012
 Notkestraße 85 | 22607 Hamburg | Germany | Phone: +49 40 8998-3392 |
 E-Mail: recruitment@desy.de
Deadline for applications: 30 November 2012
www.desy.de

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 largest scientific organisation.
 www.helmholtz.de



The Excellence Cluster for Fundamental Physics

'Origin and Structure of the Universe'



JUNIOR RESEARCH GROUP LEADER

in Astrophysics, Cosmology, Nuclear
 and Particle Physics

The Excellence Cluster "Origin and Structure of the Universe", a joint project of Technische Universität München, Ludwig-Maximilians-Universität, several Max-Planck Institutions and the European Southern Observatory, invites applications for **junior research group leader positions**. Successful candidates develop their own research program and receive funding for two PhD students and start-up funds, as well as an annual budget supporting their research.

Candidates should cover one of the following **research topics** (T=theory; E=experiment):

1. New algorithms for parallel computing (T)
2. Stellar evolution and quantitative spectroscopy (T)
3. CP violation in multibody final states at BELLE II (E)
4. Messenger for new physics: phenomenology of non-standard neutrino properties (T)
5. Strings and observables - connecting strings and black holes in particle physics and gravity (T)
6. Model independent search for physics beyond the standard model (E)
7. Interplay between direct and indirect searches for new physics (T)
8. Formation and evolution of the cosmic large-scale structure (E)
9. Direct dark matter search with a cryogenic multi-target detector (E)
10. Studying the quark-gluon plasma via low-mass dilepton with ALICE (E)

Application documents including cover letter, CV, PhD certificate, list of publications, statement of research accomplishments and research plan should be uploaded at <http://www.universe-cluster.de/about-us/jobs/>. Please have three letters of recommendation sent to Dr. Andreas Müller at job@universe-cluster.de. Applications from female scientists and candidates with disabilities are especially encouraged. The salary is according to the German public service pay agreement (TV-L E14). Appointments end on 31st October 2017.
Application deadline is 30th November 2012.

Contact: Technische Universität München – Excellence Cluster Universe –
 Dr. Andreas Müller – Boltzmannstraße 2 – 85748 Garching - Germany



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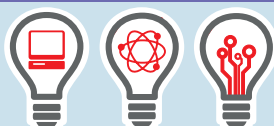


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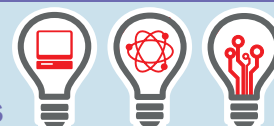
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Indiana University Theoretical Astrophysics / Nuclear Astrophysics FACULTY POSITION

The Department of Physics at Indiana University invites applications for a tenure-track assistant professor position in theoretical astrophysics, cosmology, or nuclear astrophysics starting in the fall of 2013. We are interested in excellent candidates in several areas including neutrino astrophysics, gravitational wave astrophysics, supernova and neutron star merger simulations, gamma ray astronomy, dark matter, baryogenesis, nucleosynthesis, and properties of dense matter and neutron stars. The successful candidate will join astrophysics colleagues in both the Physics and Astronomy Departments at Indiana University and interact with very strong research groups in several related areas including neutrino physics, fundamental symmetries, high-energy physics, and nuclear physics. The candidate must have a Ph.D in physics or astrophysics and some postdoctoral experience.

A commitment to excellence in teaching at the undergraduate and graduate level is essential. Candidates should submit a letter of application, curriculum vitae including a list of publications, statement of research, and a statement of teaching, and arrange for a minimum of three letters of reference. Applications should be submitted through the application portal located at <http://indiana.peopleadmin.com>. For questions please contact the Physics Department at 812-855-1247. Applications received by January 15, 2013 will be given full consideration. The position will remain open until filled. Further information about the IU Physics Department can be found at <http://physics.indiana.edu>.

Indiana University is an Equal Opportunity/Affirmative Action Employer strongly committed to excellence through diversity. Applications from women and minorities are especially encouraged. The University is responsive to the needs of dual-career families.



POST-DOCTORAL FELLOWSHIPS IN EXPERIMENTAL PHYSICS

The INFN Fellowship Programme 2012/2013 offers 16 (sixteen) positions for research activity in Experimental Physics.

Eligible candidates are non-Italian citizens. Applicants should have a Ph.D. degree or an equivalent qualification. Candidates who are preparing their doctoral thesis are eligible to apply, however they will have to obtain their Ph.D. degree before taking up their appointment with INFN.

Applicants with a Ph.D. of eight years or over eight are not eligible.

The annual gross salary is € 40.000,00. Each fellowship is initially granted for one year and may be extended to a second year. Travel tickets to and from INFN sites will be reimbursed at the beginning and at the end of the fellowship; also lunch tickets will be provided for working days.

Online applications are to be sent to INFN not later than **November 20th, 2012** applying at the website http://www.ac.infn.it/personale/exp_fellowships/. The applications should include the research topic(s) of interest, the preferred INFN site(s) - two at the most, chosen among those listed in Annex 1 - and:

- a statement of research interests;
- a curriculum vitae;
- a publication list;
- at least three reference letters (specifying name, last name and e-mail of each referee).

At the end of the selection process the candidates will be informed by e-mail about the result of their application. Successful candidates will then receive an official communication from the INFN administration offices. The appointed fellows should start their fellowships not later than November 1st, 2013; special requests to defer the starting date can be considered.

ISTITUTO NAZIONALE DI FISICA NUCLEARE
IL PRESIDENTE
(Prof. Fernando Ferroni)



**NATIONAL TAIWAN UNIVERSITY
Leung Center for Cosmology
and Particle Astrophysics**

Distinguished Junior Fellowship

The Leung Center for Cosmology and Particle Astrophysics (LeCosPA) of National Taiwan University is pleased to announce the availability of several Post-Doctoral Fellow or Assistant Fellow positions in theoretical and experimental cosmology and particle astrophysics, depending on the seniority and qualification of the candidate. Candidates with exceeding qualification will be further offered as LeCosPA Distinguished Junior Fellows with competitive salary.

LeCosPA was founded in 2007 with the aspiration of contributing to cosmology and particle astrophysics in Asia and the world. Its theoretical studies include dark energy, dark matter, large-scale structure, cosmic neutrinos, and quantum gravity. The experimental investigations include the balloon-borne ANITA project in Antarctica and the ground-based ARA Observatory at South Pole in search of GZK neutrinos, and a satellite GRB telescope UFFO that will slew in to the burst event within 1sec.

These positions are available on September 1, 2013. Interested applicant should email his/her application with curriculum vitae, research statement, publication list and three letters of recommendation before December 1, 2012 to

Ms. Yen-Ling Lee ntulecospa@ntu.edu.tw

For more information about LeCosPA, please visit its website at <http://lecospa.ntu.edu.tw/>

Three letters of recommendation should be addressed to

Prof. Pisin Chen, Director
Leung Center for Cosmology and Particle Astrophysics
National Taiwan University



POST-DOCTORAL FELLOWSHIPS IN THEORETICAL PHYSICS

The INFN Fellowship Programme 2012/2013 offers 12 (twelve) positions for research activity in Theoretical Physics.

Eligible candidates may be non-Italian citizens, or Italian citizens who, at the time of the applications, are abroad for at least three years.

Applicants must have a Ph.D degree or an equivalent qualification. Candidates who are preparing their doctoral thesis are eligible to apply; however they must have obtained their Ph.D degree before taking up their appointment with INFN.

Applicants with eight or more years of post-doctoral experience are not eligible.

The research topics of the twelve fellowships and the corresponding INFN sites are listed in Annex 1. Each candidate may apply up to a maximum of three fellowships.

The annual gross salary is € 40.000,00. Each fellowship is initially granted for one year and may be extended for a second year. Travel tickets to and from INFN sites will be reimbursed at the beginning and at the end of the fellowship; also lunch tickets will be provided for working days.

Applications, in electronic form, must be sent to INFN no later than **November 20, 2012** through the website

http://www.ac.infn.it/personale/theo_fellowships/.

The applications must specify the research topic(s) and the corresponding INFN site(s) (up to a maximum of three) among those listed in Annex 1, and must include:

- a curriculum vitae;
- a publication list;
- at least three reference letters (specifying name, surname and e-mail of each referee).

For each fellowship primary consideration will be given to candidates working in the corresponding specific research topic; however candidates working in other subjects may be also considered.

At the end of the selection process the candidates will be informed by e-mail about the result of their application. Successful candidates will then receive an official communication from the INFN Administration Offices. The appointed fellows should start their fellowships no later than November 1, 2013; special requests to defer the starting date can be considered.

ISTITUTO NAZIONALE DI FISICA NUCLEARE
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(Prof. Fernando Ferroni)



UNIVERSITY OF
SOUTH CAROLINA

Department of Physics & Astronomy

Tenure-Track Assistant Professor Position in Experimental Particle Astrophysics

The University of South Carolina invites applications in the field of particle astrophysics for a tenure-track assistant professor position in the Department of Physics and Astronomy to begin August 16, 2013. The candidate is expected to collaborate with our current experimental program in ultra-low background searches for dark matter, zero neutrino double beta-decay, and axions. This position requires a PhD in Physics. Candidates with experience in ultra-low background and cryogenic bolometric techniques are especially encouraged to apply. The successful candidate will be expected to establish a vigorous externally funded experimental research program that builds strong collaborations with our ongoing efforts in particle astrophysics while demonstrating a commitment to excellence in teaching. Preference will be given to candidates who can teach upper-level undergraduate astronomy courses.

Candidates are requested to submit a curriculum vitae, a publication list, a statement of research interests and accomplishments, and a research and teaching plan to: Professor Frank T. Avignone, Chair of the Particle Astrophysics Search Committee, USC Physics and Astronomy, 712 Main St., Columbia, SC 29208 (E-mail: avignone@sc.edu).

Candidates are also requested to ask at least three references to mail letters of recommendation directly to the above address. Inquiries may be directed to Professor Avignone at avignone@sc.edu.

For full consideration, applications must be received by November 30, 2012.

Further information is available at <http://www.physics.sc.edu>.

The University of South Carolina is an affirmative action, equal opportunity employer. Women and minorities are encouraged to apply.



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European XFEL is a multi-national non-profit company that is currently building an X-ray free-electron laser facility that will open up new areas of scientific research. When this facility is completed in 2015, its ultrashort X-ray flashes and unique research opportunities will attract scientists from all over the world to conduct ground-breaking experiments. We are a rapidly growing team made of people from more than 20 countries. Join us now!

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WORKING AT EUROPEAN XFEL

English is the working language. We offer salary and benefits similar to those of public service organisations in Germany, a free-of-charge company pension scheme, generous relocation package and support, international allowance for non-German candidates hired from abroad, training opportunities etc.

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Join our network of international research institutions, programmes and collaborations. Discuss problems and solutions with colleagues from all over the world.

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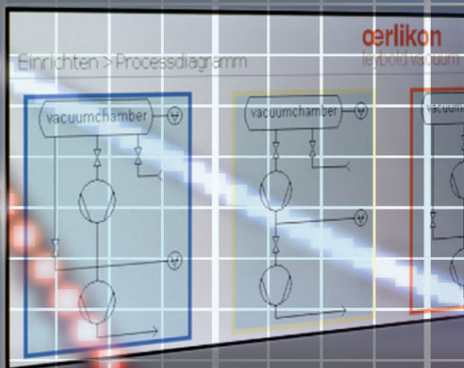
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