

The Karlsruhe Institute of Technology

Institut für Kernphysik, IKP  
has opened



### 3 Ph.D. positions

within **Astroparticle Physics**

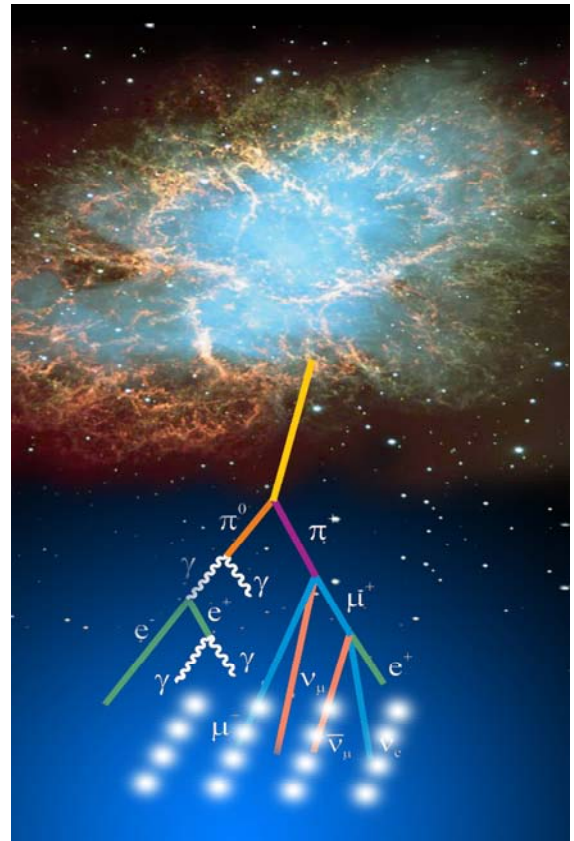


Investigations of the high-energy cosmic rays

The Helmholtz Alliance for Astroparticle Physics (HAP) is a research network supported by the Helmholtz Association. HAP aims to bring astroparticle physics in Germany to an unprecedented level of cooperation among the two Helmholtz Centers KIT and DESY, 15 German universities, 3 Max Planck Institutes, and 2 external research partners. HAP intends to significantly advance the dynamic field of astroparticle physics, an interdisciplinary research area at the intersections of particle physics, astrophysics, astronomy, and cosmology.

Within HAP we open three positions at KIT (<http://www.ikp.kit.edu/>) for qualified PhD students devoted to high-energy cosmic ray physics:

- i) the high-energy end of galactic cosmic rays (KASCADE-Grande experiment);
- ii) balloon flights with a fluorescence telescope (JEM-EUSO test experiment);
- iii) development of radio detection techniques (ASPERA R&D project at the Pierre Auger Observatory)



#### Qualification:

Candidates should hold a qualifying degree in physics and should have a specialization in astroparticle physics, astrophysics and/or elementary particle physics. Software skills (C++, modern data analysis software, Linux, Monte Carlo modelling) and experience in statistical methods would be assets. It is expected that candidates will present and discuss their results at international conferences and workshops as well as significantly contribute in publishing the results.

#### Additional Information:

The positions are limited to three years, remuneration is based on Tarifvertrag des öffentlichen Dienstes and specific Ph.D. conditions. Starting dates are as soon as possible. KIT is pursuing a gender equality policy. Women are therefore particularly encouraged to apply. If qualified, handicapped applicants will be preferred. Director and supervising Professor at the Faculty of Physics is Prof. Dr. J. Blümer.

#### Application / Contact:

Contact person for additional information is Dr. Andreas Haungs ([andreas.haungs@kit.edu](mailto:andreas.haungs@kit.edu)). Please send your application until January 31<sup>st</sup>, 2012 and referring to the identification number **35-2011-IK** to Mrs. Gätcke, KIT Personnel Service, Postbox 3640, 76021 Karlsruhe; if submitted electronically, please combine all information in a single pdf file to be sent to [baerbel.gaetcke@kit.edu](mailto:baerbel.gaetcke@kit.edu).