

Postdoc Position in VHE Gamma-Ray Astronomy at Humboldt-University Berlin Dark Matter Studies - CTA and H.E.S.S. -



The **Helmholtz Alliance for Astroparticle Physics (HAP)** is a research network funded by the Helmholtz Association. 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. Therefore, HAP aims on bringing astroparticle physics in Germany to a new level of cooperation between the Helmholtz Centers KIT and DESY, 15 German universities, three Max Planck Institutes, and two external research partners.

The **(Astro-)Particle Physics Group at the Department of Physics at Humboldt University Berlin** (<http://www-eep.physik.hu-berlin.de/HESS>) invites applications for a postdoc position in very high-energy gamma-ray astronomy. Candidates are expected to work on Dark Matter (DM) studies in the framework of the future CTA (Cherenkov Telescope Array) observatory and the H.E.S.S. (High Energy Stereoscopic System) experiment in Namibia. The studies should aim at

- attaining a better understanding of the performance limitations of imaging atmospheric Cherenkov telescopes in indirect DM searches and/or
- connecting the results of indirect DM searches with constraints from collider experiments (i.e. LHC) and direct searches.

Applicants should hold a PhD in physics or in a related field and have a specialization in elementary particle physics and/or astrophysics. Software skills (C++, analysis software, Linux) and experiences with Monte Carlo simulations would be assets.

The position is limited to 3 1/2 years. Salary (TVL-HU E13) and benefits are commensurate with public service organizations in Germany. The position will be available from January 2012, but a later starting date can be negotiated. Humboldt University is an equal opportunity, affirmative action employer and encourages applications from women. The position will be open until filled.

Please contact Ullrich Schwanke for further inquiries and send applications (CV, research plan, names of 2-3 referees) in PDF format to schwanke@physik.hu-berlin.de. Please quote DR/125/11 with your application. Applications in paper format should be sent to:

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Alliance for Astroparticle Physics