



**The Research Training Group (Graduiertenkolleg 1504)  
“Mass, Spectrum, Symmetry: Particle Physics in the Era of the Large Hadron  
Collider”,**

funded by the Deutsche Forschungsgemeinschaft as a cooperation between the Humboldt-Universität zu Berlin, the Technische Universität Dresden and DESY at Zeuthen offers

**7 positions for PhD students with half-time employment,  
payment according to TVL E13 AnwTV HU (HU Berlin)**

in the field of experimental and theoretical elementary particle physics and astroparticle physics. The graduate program will integrate different fields of research in the experimental and theoretical aspects of particle physics according to the challenges emerging from the Large Hadron Collider (LHC) at CERN. Main research topics are data analysis with ATLAS, astroparticle physics with IceCube and H.E.S.S., LHC phenomenology, quantum field and string theory as well as lattice gauge theory.

We are looking for excellent doctoral students with a university degree (diploma or master) from Germany or abroad.

The positions are offered **from July 2013 at the earliest, located at Berlin with the restriction of the final approval of funding by the DFG.** The contract will be limited to maximal 3 years in total.

Applications are to be handed in by May 10<sup>th</sup>, 2013 to the scientific coordinator of the graduate school **Dr. Martin zur Nedden, Institut für Physik, Humboldt-Universität zu Berlin, Newtonstrasse 15, 12489 Berlin (nedden@physik.hu-berlin.de)**. The application is **must be submitted electronically** via our webpage, an additional postal application is optional:

**<http://www.masse-spektrum-symmetrie.de/application>**

The application should include C.V., copies of certificates of degrees, a letter of motivation specifying the field of research interest and the names and contact address of two referees. Please arrange that the letters of recommendation are sent directly by the referees to the coordinator.

Further information about the graduate school and the process of application are available on the web page.

We especially encourage the application of qualified women. Handicapped candidates with equal qualification are explicitly motivated to apply.