



UZH, Physik-Institut, Winterthurerstrasse 190, CH-8057 Zürich

PhD position in experimental astroparticle physics at the University of Zurich



The Experimental Astroparticle Physics Group at the University of Zurich announces the opening of one PhD position in the context of the XENON experiment, which aims to directly detect particle dark matter in the laboratory using liquid xenon as target material.

The candidate will play a key role in the XENON project, the thesis could include some of the following topics:

- data analysis for XENON100, the detector currently operating at the Gran Sasso underground laboratory (LNGS) in Italy
- design, construction and deployment for the upcoming XENON1T experiment at LNGS (inner detector, electronics, calibration system)
- operation of the low-background screening facility Gator, analysis of results
- design and operation of a small liquid xenon detector in the laboratory at UZH
- measurements to study the properties of liquid xenon as a detector material
- design and R&D studies for the future European dark matter project DARWIN

We are looking for exceptional candidates who are strongly motivated to pursue a rigorous research program in an inspiring environment at the University of Zurich, and within a small international collaboration. A master's degree or diploma in physics and a solid background in particle or astroparticle physics are required. The ideal candidate will have interest in both, instrumentation and data analysis.

Applicants should send a curriculum vitae, a list of publications, a statement of research and arrange for two letters of recommendation to be sent to Mrs. Carmelina Genovese, Physics Institute of the University of Zurich, Winterthurerstr. 190, CH-8057 Zurich, Switzerland. For full consideration, completed applications including reference letters should be received by November 15, 2011. Applications received after that date will be considered until the position is filled.