



Universität Zürich
Physik-Institut



Postdoctoral Position in Astroparticle Physics University of Zurich

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The Experimental Astroparticle Physics Group at the University of Zurich invites applications for a postdoctoral position to participate in the DARWIN project. DARWIN (DARK matter WImp search with Noble liquids) is a design study towards the realization of a ton to multi-ton scale dark matter facility based on the liquid argon and liquid xenon time projection chamber technique. The study has been funded through the first ASPERA call and will have a total duration of three years. More details on DARWIN are provided here <http://darwin.physik.uzh.ch/>.

The successful candidate is expected to play a leading role in several aspects of the study, such as R&D on the TPC infrastructure, on the light readout, on material screening with an existing ultra-low background Ge detector, as well as to be involved in the background modeling and shielding design of the facility. The astroparticle physics group is involved in direct dark matter searches with a liquid xenon TPC (XENON) and with a liquid argon TPC (ArDM). The work will take place at the University of Zurich, with periodical stays at CERN.

A recent PhD in astroparticle physics, high-energy physics or a related field is required. Experience with noble liquid techniques, cryogenic systems, low-background techniques, data analysis and Monte Carlo simulations is of advantage.

Applicants should send a curriculum vitae, a list of publications, a statement of research and arrange for three letters of recommendation to be sent to Prof. Laura Baudis, 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 February 28, 2010; applications received after that date will be considered until the position is filled.