



In the framework of the EU-funded **ERC project ULTIMATE**, the **Astroparticle Physics Group** at the Physics Institute of the University of Freiburg invites applications for a

Postdoctoral Position in experimental Astroparticle Physics (LXe-based Dark Matter Search)

The successful candidate will play a leading role in the new ERC project ULTIMATE, which will explore possible new paths towards the ultimate dark matter detector. Such a detector, capable to reach the background „floor“ from irreducible neutrino interactions, could be realized in the framework of the international DARWIN project. The candidate will work with a team of up to three PhD students addressing important aspects of the future detector in R&D projects conducted in Freiburg.

The astroparticle group at the University of Freiburg is involved in the direct detection of dark matter using liquid-xenon based time projection chambers (XENON, DARWIN), mainly focusing on detector design, data acquisition and electronics, low-background techniques and data analysis. Other ongoing projects of the group are CAST and COMPASS at CERN.

Applicants must have a PhD in experimental particle/astroparticle/nuclear physics. Programming skills and hardware experience are necessary for the position. A background in liquid noble gas detectors, dark matter searches or low-background physics would be beneficial but is not strictly required. The initial duration of the contract is for two years but can be extended.

Interested candidates are encouraged to send a short letter of application, CV and publication list, and the names and email addresses of three references to the address given on the right. Please send applications in electronic form (one single pdf-file). For further information, please also contact marc.schumann@physik.uni-freiburg.de

The position is open May 1st, 2017 until filled. Applications are reviewed in the order they are received.

Albert-Ludwigs-Universität
Freiburg

Physikalisches Institut



Experimental
Astroparticle Physics (APP)

Prof. Dr. Marc Schumann
Group Leader

Hermann-Herder-Str. 3
D-79085 Freiburg

Tel. +49 (0)761/203-96894
Fax +49 (0)761/203-5705

marc.schumann@physik.uni-freiburg.de

www.app.uni-freiburg.de

