In the framework of the **Research Training Group 2044 (Graduierten-kolleg)**, the **Astroparticle Physics Group** at the Physics Institute of the University of Freiburg invites applications for a

PhD Position in experimental Astroparticle Physics (XENON Dark Matter Search)

We are involved in the XENON program which is searching for dark matter using ultra-sensitive detectors filled with liquid xenon. XENON1T, the current stage of the program, has recently started taking science data at the Gran Sasso Underground Laboratory (Italy). At the same time, the collaboration is preparing the upgrade phase XENONnT which will increase the sensitivity by another order of magnitude. Our group in Freiburg is involved in data analysis, data acquisition and electronics, and detector design. The successful candidate is expected to play an active role in some of these activities.

Applicants should have a Master's degree (or equivalent) in physics and knowledge in particle/astroparticle/nuclear physics. Programming skills are beneficial.

Interested candidates are encouraged to send a motivation letter stating the research interests, a CV with a list of publications (if available), an abstract of the masters/diploma thesis (max ½ page), degree certificates and study transcripts with a description of the grading scheme, a tangible proof of the fluency in English (if available) and names and email addresses of two potential references to the address given on the right. Please send applications in electronic form (one single pdf file).

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

Albert-Ludwigs-Universität Freiburg

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Experimental Astroparticle Physics (APP)

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