

## EURECA –A Cryogenic Dark Matter Detector

*Tuesday 9 April 2013 15:06 (12 minutes)*

The EURECA (European Underground Rare Event Calorimeter Array) collaboration aims to construct and operate a cryogenic tonne-scale dark matter detector. The chosen technology is low-temperature calorimeters that combine the detection of a heat signal for precise energy measurement with either ionization or scintillation for efficient event type identification. The aim is to probe WIMP-nucleon scalar scattering cross-sections at the  $10^{-10}$  pb sensitivity level. The current status of the conceptual design, R&D work and future prospects will be presented.

**Author:** Ms ZHANG, Xiaohe (University of Oxford)

**Presenter:** Ms ZHANG, Xiaohe (University of Oxford)

**Session Classification:** Track 4

**Track Classification:** Parallel Track 4