

XV Neutrino Telescopes Workshop  
Palazzo Franchetti – Venice, 11-15 March 2013

**Poster Session – Submission of Abstract**

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Title of the Poster: CUORE-0 and CUORE sensitivity to WIMPs and supernova neutrinos.

ABSTRACT (no longer than 800 characters)

The Cryogenic Underground Observatory for Rare Events (CUORE) is a 1-ton scale bolometric experiment. CUORE is an array of 988 TeO<sub>2</sub> crystals of 750 g each arranged in a cylindrical compact and granular structure of 19 towers. Even if its primary target is the observation of neutrinoless double beta decay of <sup>130</sup>Te, different analysis can be performed. Thanks to the high mass, the good energy resolution, and the low background it can also be sensitive to other rare processes. Dark Matter and neutrinos emitted by core collapse supernovae can be detected via the observation of the target nuclei recoil energy. In this contribution, the sensitivity of CUORE-0 -a prototype tower- and CUORE to an annual modulation signal induced by WIMP Dark Matter candidates and to supernova neutrinos are presented.

SUMMARY (no longer than 400 characters. Insert a tag, key word, topic, etc.)

Topic: CUORE bolometers at low energy

Key word: Dark Matter, Supernova Neutrinos, Cuore

CUORE is a 1-ton scale bolometric experiment to search for Neutrinoless Double Beta Decay of <sup>130</sup>Te. Thanks to the high mass, the good energy resolution, and the low background it can also be sensitive to other rare processes as Dark Matter and supernova neutrinos. The sensitivity of CUORE-0 -a prototype tower- and CUORE to an annual modulation signal induced by WIMP Dark Matter candidates and to supernova neutrinos are presented.