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Status of the CUORE and CUORE-0 experiments at Gran Sasso

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CUORE is a 741 kg array of TeO_2 bolometers for the search of neutrinoless double beta decay in Te-130 . The detector is being constructed at the Laboratori Nazionali del Gran Sasso, Italy, where it will start taking data in 2014.

If the target background of 0.01 counts/(keV kg y) will be reached, in five years of data taking CUORE will have an half life sensitivity of about 10^{26} y.

CUORE-0 is a smaller experiment constructed to test and demonstrate the performances expected for CUORE. The detector is a single tower of 52 CUORE-like bolometers that started taking data in spring 2013.

The status and perspectives of CUORE will be discussed, and the first CUORE-0 data will be presented.

Primary author: DI DOMIZIO, Sergio (INFN and Universita' di Genova)

Presenter: DI DOMIZIO, Sergio (INFN and Universita' di Genova)

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