

## First data from CUORE-0

*Wednesday, 11 September 2013 16:00 (20 minutes)*

“CUORE-0 is a neutrinoless double beta decay ( $0\nu\beta\beta$ ) experiment built to test and demonstrate the performances of the upcoming CUORE experiment. Composed of 52  $^{nat}\text{TeO}_2$  bolometers of 750 g each, it is expected to reach a sensitivity to the  $0\nu\beta\beta$  half-life of  $^{130}\text{Te}$  around  $5 \cdot 10^{24}$  y. CUORE-0 started to take data in April. CUORE-0 data are here presented for the first time, with an update of the expected scientific reach.”

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**Session Classification:** Double Beta Decay/ Neutrino Mass IV

**Track Classification:** Double Beta Decay