



$0\nu\beta\beta$ Search Results from One Tonne-Year of CUORE Data

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The Cryogenic Underground Observatory for Rare Events (CUORE) is a large bolometric experiment searching for neutrinoless double beta decay ($0\nu\beta\beta$).

The detector consists of an array of 988 TeO_2 crystals arranged in a compact structure of 19 towers, hosted in the biggest cryostat ever built to operate at 10mK.

In this seminar we report the results of $0\nu\beta\beta$ decay analysis in ^{130}Te and the measurement of the background index in the region of interest with the data from a tonne-year of exposure, acquired from Spring 2017 to Fall 2020. This result attests the use of cryogenic calorimeters as one of the most competitive techniques in the current $0\nu\beta\beta$ decay search international scenario.

Date and time: **Wed April 14, 2021 - 3:00 pm CEST**

Zoom meeting info: **TBA** - Further info on: <https://agenda.infn.it/e/cuore-2021>