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Status and performance of the CUORE-0 detector

CUORE-0 is the most sensitive experiment currently searching for the 0nu2beta decay of 130Te. The CUORE-0 setup consists in an array of 52 tellurium dioxide crystals, operated as bolometers at a temperature of ~10mK, with a total mass of about 39 kg of TeO_2. It has been built to test and demonstrate the performance of the upcoming CUORE experiment. CUORE-0 is running in the Gran Sasso National Laboratory (Italy) since March 2013. Here will be presented the most recent results, including the background rate, the detector performance and the sensitivity.

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