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First measurements with the CUORE-0 prototype

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CUORE-0 is a neutrinoless double beta decay experiment consisting of an array of 52 TeO2 bolometers for a total detector mass of about 40 kg. Its goal is to investigate the Majorana electron neutrino mass in the range expected for the Quasi Degenerate scenario, while providing a test of proof for the future CUORE experiment. This will be a 1-ton array designed to reach a sensitivity into the Inverted Hierarchy region of the neutrino mass spectrum and foreseen to run into operation by end 2014. The first measurements performed with CUORE-0 and the obtained performances will be illustrated, together with a presentation of the CUORE status and of its potentialities in the field of neutrinoless double beta decay research.

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