

# The 26th International Workshop on Weak Interactions and Neutrinos (WIN2017)

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## The start up of the CUORE experiment at LNGS

*Friday, 23 June 2017 11:50 (15 minutes)*

The Cryogenic Underground Observatory for Rare Events (CUORE) is the first bolometric experiment reaching the 1-ton scale. The detector consists of an array of 988 TeO<sub>2</sub> crystals arranged in a cylindrical compact structure of 19 towers. The construction of the experiment and, in particular, the installation of all towers in the cryostat was completed in August 2016: the experiment is now in pre-operation phase and data taking is commencing. In this talk, we will discuss the achievements and technical challenges of the construction phase, the performance of the detector during pre-operation and the first results from the full detector runs.

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