

Abstract Submitted
for the APR06 Meeting of
The American Physical Society

Updates on Cuoricino and CUORE THOMAS D. GUTIERREZ, Lawrence Berkeley National Laboratory, CUORICINO COLLABORATION, CUORE COLLABORATION — Overviews of the neutrinoless double beta ($\beta\beta 0\nu$) decay experiments Cuoricino and CUORE (Cryogenic Underground Observatory for Rare Events) will be presented. Cuoricino is currently the largest double beta decay experiment in operation and consists of 40 kg of TeO₂ crystals that act both as source and detector. The proposed CUORE experiment will consist of 988 TeO₂ crystals with a total source/detector mass of 750 kg. Updates from Cuoricino on the $\beta\beta 0\nu$ limit for ¹³⁰Te as well as evaluations of other decays will be presented.

Thomas D. Gutierrez
Lawrence Berkeley National Laboratory

Date submitted: 17 Jan 2006

Electronic form version 1.4