Abstract Submitted
for the APR11 Meeting of
The American Physical Society

CUORE status and recent crystal validation runs KE HAN, Lawrence Berkeley National Lab, CUORE COLLABORATION — The Cryogenic Underground Observatory for Rare Events (CUORE) will search for neutrinoless double beta decay in ^{130}Te at ton·year scale. The search sensitivity depends critically on the energy resolution and radio-purity of our bolometric detectors. Recently, we have been working on a series of CUORE crystal validation runs (CCVR's) to measure the energy resolution and contamination of the newly produced TeO_2 crystals in standard CUORE modules. We also investigated the performances of a new set of neutron transmutation doped germanium thermistors. In this talk, I will summarize the latest CUORE status and results of the recent CCVR's.

Ke Han
Lawrence Berkeley National Lab

Date submitted: 11 Jan 2011 Electronic form version 1.4