## Abstract Submitted for the APR06 Meeting of The American Physical Society

Calibrating the CMS Electromagnetic Calorimeter using  $\pi^0$ 's JINGZHI ZHANG, D. GONG, Y. KUBOTA, R. RUSACK, University of Minnesota, Y. GERSTEIN, Florida State University, CMS COLLABORATION — Calibration defines the ultimate performance of the CMS electromagnetic calorimeter (ECAL) at the LHC. The individual calibration of all 75848 crystal channels to the desired precision of 0.5% is a challenge.  $\pi^0 \to \gamma \gamma$  has a very large production rate and a substantial sample can be accumulated relatively easily. Here we present a study on calibrating this detector in-situ using inclusive  $\pi^0$ 's.

Sarah Eno U. Maryland

Date submitted: 09 Jan 2006 Electronic form version 1.4