Abstract Submitted
for the SES05 Meeting of
The American Physical Society

Missing Transverse Energy Reconstruction and Correction in CMS HAIFENG PI, PAUL AVERY — This paper summarizes the performance of basic missing transverse energy (MET) reconstruction and its correction techniques in Compact Muon Solenoid (CMS) experiment of Large Hadron Collider (LHC). Results of inclusive MET spectrum and resolution, high level trigger (HLT), factorization model, online and offline correction strategies and detector effects that influence MET quantities are presented. The design goal of MET will be satisfied to provide critical identification of the physics signature for precision measurement of standard model and discovery of new physics.

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Date submitted: 05 Aug 2005 Electronic form version 1.4