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**Missing Transverse Energy in events with tau particles at the CMS detector** ALFREDO GURROLA, TERUKI KAMON, CHI-NHAN NGUYEN, ALEXEI SAFONOV, Texas A&M University, CMS COLLABORATION — The Large Hadron Collider (LHC) is expected to probe new physics beyond the Standard Model. A characteristic feature of new physics signals at the LHC will be the presence of large missing transverse energy (MET). Furthermore, our ability to fully reconstruct the Higgs mass in the di-tau decay channel is very sensitive to the measurement of the missing energy. Thus, it becomes extremely important to measure the missing energy accurately and with good precision. We overview the current status of MET measurements at the CMS detector, and present a method for improving this measurement in events with hadronically decaying taus.

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