

Abstract Submitted
for the APR11 Meeting of
The American Physical Society

Search for New Physics in multijet events with significant missing transverse energy using b-tagging HAROLD NGUYEN, UC Riverside, CMS COLLABORATION — We present a search for physics beyond the Standard Model based on events with significant missing transverse energy, at least three jets, and at least one identified b-jet. The b-jets plus MET sample presents a unique topological signature for a model-independent analysis, which complements those of leptons+jets+MET and jets+MET without b-tagging. The study is based on a sample of 36 pb^{-1} collected with the CMS detector in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. We show the implications of our background determination estimates using data-driven methods, and set model-independent limits for anomalous signatures.

Greg Landsberg
Brown University

Date submitted: 13 Jan 2011

Electronic form version 1.4