

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

Search for Pair Production of First Generation Scalar Leptoquarks at the CMS Experiment ELIZABETH TWEDT, University of Maryland, CMS COLLABORATION — Leptoquarks are theoretical particles carrying both lepton number and quark flavor. They are predicted to exist by Grand Unified Theories, technicolor and composite models, among others. Early results from the search for pair production of first generation scalar leptoquarks at the CMS experiment at the CERN LHC pp collider are presented. Both the discovery potential and exclusion limit for CMS with pp collisions at a center of mass energy of $\sqrt{s} = 7$ TeV are explored.

Elizabeth Twedt
CMS, University of Maryland

Date submitted: 14 Oct 2009

Electronic form version 1.4