



Contribution ID: 72

Type: Poster

## Search for supersymmetry in final states with a single lepton, b-jets and missing transverse energy in proton-proton collisions at 7 TeV

Monday 4 June 2012 16:00 (1 minute)

Motivated by supersymmetric models with light top and bottom squarks, a search for supersymmetry in final states with a single lepton, b-jets and missing transverse energy is performed. The analysis is based on data recorded at a center of mass energy of 7 TeV during 2011, corresponding to an integrated luminosity of 4.96/fb. Results are interpreted in the context of the constrained Minimal Supersymmetric Standard Model and different heavy flavor simplified models.

### **E-mail Address**

niklas.pietsch@desy.de

**Collaboration Name** **Please enter the name of the collaboration or group using the acronym, as in: ABC Collaboration**

CMS Collaboration

**Primary authors:** CAKIR, Altan (Deutsches Elektronen-Synchrotron); HORTON, Dean (Deutsches Elektronen-Synchrotron); KRUECKER, Dirk (Deutsches Elektronen-Synchrotron (DESY)-Unknown-Unknown); RON ALVAREZ, Elias (Deutsches Elektronen-Synchrotron); COSTANZA, Francesco (Deutsches Elektronen-Synchrotron); SCHETTLER, Hannes Helmut (UHH - Institute for Experimental Physics); MELZER-PELLMANN, Isabell (Deutsches Elektronen-Synchrotron); STEIN, Matthias (Deutsches Elektronen-Synchrotron); PIETSCH, Niklas Andreas (UHH - Institute for Experimental Physics); Prof. SCHLEPER, Peter (Hamburg University (DE))

**Presenter:** PIETSCH, Niklas Andreas (UHH - Institute for Experimental Physics)

**Session Classification:** 1D: Poster Session and Coffee Break

**Track Classification:** Supersymmetry