ID de Contribution: **775** Type: **Poster**

Searches for supersymmetry in pp collisions at $\sqrt{s}$ = 7 TeV in final states with missing transverse momentum, b-jets and at least one leptons

Results are presented of a search for new physics in events with large missing transverse energy and heavy flavor jet candidates in √s=7 TeV proton-proton collisions recorded by the ATLAS experiment at the Large Hadron Collider in 2011. Events are required to contain energetic jets, of which one or two must be identified as a b-jet, large missing transverse energy and at least one isolated leptons (electron or muon).
Several topologies sensitive to third generation squark production are examined. The results are interpreted in the context of phenomenological MSSM models as well as specific supersymmetry breaking scenarios such as mSUGRA.

Auteur principal: Dr D'ONOFRIO, Monica (University of Liverpool)

Orateur: Dr D'ONOFRIO, Monica (University of Liverpool)