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## Search for a Neutral MSSM Higgs bosons in the tau-tau final state in early Run II collision data at ATLAS

Tuesday, 30 June 2015 14:00 (20 minutes)

**Abstract content** (Max 300 words)  
**Formatting & Special chars**

In its scheduled Run-II phase the LHC will run at unprecedented centre of mass energies. High energy pp collisions will offer competitive sensitivity even at low integrated luminosities, motivating many searches to produce results early on in Run-II. Due to very different conditions from Run-I adapting analysis strategies from Run-I to Run-II is non-trivial. The progress/results of a search for the neutral Higgs bosons of the Minimal Supersymmetric Standard Model (MSSM) decaying to tau leptons is reported. The analysis is based on the early sample of proton-proton collisions in Run-II.

**Apply to be considered for a student award (Yes / No)?**

Yes

**Level for award (Hons, MSc, PhD, N/A)?**

PhD

**Main supervisor (name and email) and his / her institution**

Bruce Mellado

**Would you like to submit a short paper for the Conference Proceedings (Yes / No)?**

Yes

**Please indicate whether this abstract may be published online (Yes / No)**

Yes

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