



Contribution ID: 404

Type: Oral Presentation

## Search for the Higgs boson in fermionic channels using the ATLAS detector

Thursday, 10 July 2014 14:20 (20 minutes)

**Abstract content**   
 (Max 300 words)   
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Since the discovery of the Higgs boson by the ATLAS and CMS experiments at the LHC, the emphasis has shifted towards measurements of its properties. Of particular importance is the direct observation of the coupling of the Higgs boson to fermions. In this presentation a comprehensive review of ATLAS results in the search for the Higgs boson in tau, muon, and b-quark pairs will be given.

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

Yes

**Level for award (Hons, MSc, PhD)?**

PhD

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

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

Yes

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**Session Classification:** NPRP

**Track Classification:** Track B - Nuclear, Particle and Radiation Physics