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## Searches for associated top quark and Higgs boson production at the ATLAS experiment

*Thursday, August 6, 2015 5:15 PM (25 minutes)*

The production of Higgs bosons in association with top quark pairs ( $t\bar{t}H$ ) provides a measurement of the top quark Yukawa coupling that can be used to constrain possible deviations from the Standard Model induced by new physics. This talk will cover the results of the searches for  $t\bar{t}H$  production at the ATLAS experiment using data collected during LHC Run 1. These include analyses targeting the  $H \rightarrow b\bar{b}$ ,  $H \rightarrow WW$ ,  $H \rightarrow \tau\tau$ , and  $H \rightarrow \gamma\gamma$  decays.

### Oral or Poster Presentation

Oral

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