



# PHYSICS AND ASTRONOMY COLLOQUIUM

## Dr. Sarah Demers

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### “High Energy, High Hopes: Run 2 at ATLAS”

#### Abstract

The ATLAS detector at CERN's Large Hadron Collider had a successful Run 1 with proton-proton collisions at center-of-mass energy 7 TeV in 2011 and then 8 TeV in 2012. In addition to the discovery of the Higgs Boson, hundreds of analyses have been performed on this data to test theories predicting physics beyond our current Standard Model. This summer we began taking data at center-of-mass energy 13 TeV, which we will continue for the upcoming few years. I will describe where we stand with the Run 1 data in-hand, how this start-up is going, and what we can hope to discover in Run 2.

Wednesday, September 16, 2015

3:00 p.m.

Bob Wright Centre

Room B150