



Contribution ID: 86

Type: Oral Presentation

## Overview of recent results in the diphoton decay channel with pp collisions collected during 2015 and 2016 at 13 TeV with the ATLAS detector

*Tuesday, 4 July 2017 10:00 (20 minutes)*

The LHC began Run II operations in the second half of 2015. This is the first physics run since the discovery of the Higgs boson in 2012 and opens the door to new physics beyond the standard model. Recent results based on the 2015 and 2016 data include the measurement of the fiducial, differential and production cross sections of the Standard Model (SM) Higgs boson of mass 125.09 GeV as well as Beyond the SM searches for resonances in the high mass diphoton region. An overview of these recent results will be given.

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

No

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

N/A

**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)?**

No

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**Session Classification:** Nuclear, Particle and Radiation Physics 2

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