

Abstract Submitted
for the APR17 Meeting of
The American Physical Society

Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector KHILESH MISTRY, None, ATLAS EXPERIMENT COLLABORATION — This talk will present the preliminary measurements of the Higgs boson properties measured in the $H \rightarrow \gamma\gamma$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector at the Large Hadron Collider. Fiducial cross sections in several phase space regions and differential cross sections as a function of several kinematic variables will be shown. Cross section results from gluon fusion, vector boson fusion, and Higgs boson production in association with a vector boson or a top-antitop pair will also be presented.

Khilesh Mistry
None

Date submitted: 28 Sep 2016

Electronic form version 1.4