Phenomenology 2014 Symposium



Contribution ID: 141 Type: not specified

Combined Measurements of the properties of the Higgs boson using the ATLAS Detector

Monday 5 May 2014 14:30 (15 minutes)

Properties of Higgs boson production are presented, as measured by the ATLAS detector at the LHC in 2011 and 2012. Couplings and spin measurements are reviewed briefly. Limits on the invisible and unobserved branching fractions are presented, from direct searches and combined fits. Differential cross sections measured in the diphoton decay channel provide additional information about the production mechanism.

Summary

Properties of Higgs boson production are presented, as measured by the ATLAS detector at the LHC in 2011 and 2012. Couplings and spin measurements are reviewed briefly. Limits on the invisible and unobserved branching fractions are presented, from direct searches and combined fits. Differential cross sections measured in the diphoton decay channel provide additional information about the production mechanism.

Author: SAXON, James (University of Pennsylvania (US))

Presenter: SAXON, James (University of Pennsylvania (US))

Session Classification: SM Higgs I