



ID de Contribution: 105

Type: Oral Presentation

Measurement of Higgs boson couplings in the diphoton decay channel with the ATLAS experiment

lundi 9 mai 2016 15:15 (15 minutes)

The run 2 of the LHC starts an era of precision measurement in the Higgs sector which may be a portal to Beyond Standard Model physics.

To be sensitive to BSM, an improvement of the systematics is necessary.

The final step of the electron energy correction, which is part of the dominant experimental uncertainties, uses a data driven technique to calibrate the energy of electrons using Z decay.

Run 2 prerecommendations were derived using reprocessed 8TeV data and early recommendations were computed with the first 13TeV data.

Coupling are measured using a likelihood procedure on the data.

30% precision was achieved in run 1 and a sensitivity study is ongoing for run 2.

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Classification de Session: High-energy physics

Classification de thématique: Particle Physics