

LHC Seminar

SPEAKER: Nicholas Wardle (CERN)

TITLE: Combined measurement of the Higgs boson mass in pp collisions at sqrt(s) = 7 and 8 TeV at the LHC

- DATE: Tue 31/03/2015 11:00
- PLACE: Filtration Plant

ABSTRACT

A measurement of the Higgs boson mass is presented based on the combined data samples of the ATLAS and CMS experiments at the CERN LHC in the H $\rightarrow \gamma\gamma$ and H $\rightarrow ZZ \rightarrow 4l$ decay channels. The seminar introduces the individual mass measurements and the underlying performance and calibration work. The final result is obtained from a simultaneous fit to the reconstructed invariant mass peaks in the two channels and for the two experiments.