



Contribution ID: 264

Type: **Parallel Talk**

## Measurement of the Higgs boson differential and fiducial cross sections at CMS

*Friday, July 7, 2017 9:30 AM (15 minutes)*

After the discovery of a Higgs boson, it is of great importance to study its properties under a minimal set of assumptions. The definition of a fiducial phase-space for the measurement of cross sections allows to minimise uncertainties due to extrapolations and to model dependence. A measurement of the Higgs boson differential fiducial cross sections is performed in several final states, including diphoton and ZZ channels, using 36/fb of pp collisions at a center-of-mass energy of 13 TeV collected by the CMS experiment at the LHC. The fiducial cross sections are measured as a function of kinematic observables characterising the production mechanism of the Higgs boson. A review of the analysis strategy and event categorisation will be provided and the most recent results will be shown.

### Experimental Collaboration

CMS

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