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Observation of VBF Higgs with the ATLAS detector

Friday, 21 December 2018 16:45 (15 minutes)

Vector Boson Fusion (VBF) is the second largest production of the Higgs and its contribution to the discovery of the Higgs is important. After the discovery of Higgs, Searching for Higgs with different production model is one of the most important topics at the LHC. ATLAS observed around 3 sigma with RUN1 data and achieves the first observation (5 sigma) mostly from Higgs decaying into two photons with RUN2 data. This talk will mostly focus on our study of VBF Higgs in ATLAS including the MVA technologies to improve the sensitivities, estimating the backgrounds, extracting statistical results etc.

Type

Parallel talk

Sessions (parallel only)

Higgs

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