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Type: Talk

Measurements of processes sensitive to quartic electroweak couplings in ATLAS

Tuesday, July 11, 2023 4:20 PM (20 minutes)

Processes involving quartic electroweak gauge couplings have become experimentally accessible for the first time in the run-2 dataset of the LHC. In this talk, recent measurements of triboson production and the electroweak diboson production in association with two jets by the ATLAS experiment are presented. Differential measurements of $Z\gamma\gamma$ production, as well as the observation of $W\gamma\gamma$ and $WZ\gamma$ production are reported. Moreover, measurements of vector-boson scattering to ZZ , $Z\gamma$ and same-sign WW are discussed. They include a large set of differential distributions. The results are used to constrain dimension-eight operators affecting quartic electroweak couplings in an Effective Field Theory framework.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

ATLAS

Is the speaker for that presentation defined?

No

Details

N/A

Internet talk

Maybe

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