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Vector Boson Scattering and Quartic Gauge Coupling Studies in WZ Production at 14 TeV

Studies of the $pp \rightarrow WZjj$ vector boson scattering process in 14 TeV pp collisions using upgraded CMS detector configurations are presented. These studies include assessments of the discovery potential for observing longitudinal vector boson scattering for luminosities up to 300/fb and for observing anomalous quartic gauge couplings with luminosities of 300/fb and 3000/fb.

Summary

This paper summarizes the results about the physics potential of the CMS detector at LHC for the measurement of the vector boson scattering process in the $WZjj$ channel. Two luminosities scenarios are considered, one for 300/fb, corresponding to the expectations at the end of Run3, and one for 3000/fb, the ideal goal of HL-LHC. Both scenarios correspond to different stages of upgrade of the current detector.

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