

Probing extra-dimensions at the LHC using quartic photon W and photon Z anomalous couplings

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We present a new method to test the Standard Model expectations at the LHC using photon-induced WW and ZZ productions. Both W decay in the main ATLAS or CMS detectors while scattered protons are measured in forward detectors. The sensitivity to anomalous WW $\gamma\gamma$ and ZZ $\gamma\gamma$ quartic couplings can be improved respectively by four orders of magnitude compared to the present LEP limits, allowing to probe with an unprecedented precision higgsless or extra dimension models. Details will be given how to achieve these results using an upgrade of the ATLAS or CMS experiment.

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Plenary talk

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