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Photon-Initiated processes at the LHC

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We show the effects of the inclusion of Photon-Initiated processes in the di-lepton channel.

We include the contribution of quasi-real photon through the Equivalent Photon Approximation, of real photons through the recently released QED PDFs, and (as novelty) of the mixed real- quasi-real photons interaction.

We comment on the systematic uncertainties arising from the inclusion of those terms as predicted by different PDF collaborations.

We show the consequences of the inclusion of all the aforementioned terms in BSM searches for Z' bosons in the di-lepton channel.

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