

PASCOS 2016: 22nd International Symposium on Particles, Strings and Cosmology



Contribution ID: 125

Type: **not specified**

Exotic $Z\gamma$ Search with the ATLAS Detector and its Implication to the 750 GeV $\gamma\gamma$ Excess

Wednesday, 13 July 2016 11:00 (20 minutes)

We investigate the possibility that the widely discussed ~ 750 GeV $\gamma\gamma$ excesses at the 2015 13TeV collisions at the LHC can be explained by the vector boson fusion production rather than the gluon-gluon fusion production which was assumed by most of the phenomenological models, by considering the available kinematics distributions from ATLAS and CMS results. We propose a model with extra scalar hypothetical particles rather than extra coloured vector-like quarks.

Summary

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Session Classification: Parallel II

Track Classification: Physics at Colliders