

Contribution ID: 953

Type: Poster Presentation

Search for a spin-zero high mass resonance with the Z(II)Z(vv) final state in 2016 with CMS

The latest results of the search for a high mass scalar boson using the 13TeV proton-proton collision data acquired by the CMS experiment in 2016 will be presented. In particular, this poster will be focused on the decay channel H->ZZ->llvv selected from data corresponding to an integrated luminosity of 35.9/fb. An analysis of the reconstructed transverse mass and missing transverse energy is performed in different event categories, and limits are set on the production cross section of a heavy scalar of variable width in the gluon-fusion and vector-boson fusion production modes.

Experimental Collaboration

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Session Classification: Poster session

Track Classification: Higgs and New Physics