

LHC Results: Search for the rare decays of the Higgs and Z boson to a J/Psi or Psi' meson and a photon in CMS at $\sqrt{s} = 13$ TeV

Monday 9 December 2024 14:51 (17 minutes)

Results from search for the rare decays of the standard model (SM) Higgs and Z boson to a J/Ψ or Ψ' meson and a photon, with subsequent decay of the meson to a pair of muons will be presented in this contribution. The analysis is performed using data recorded by the CMS detector during full Run 2 from proton-proton collisions at a center-of-mass energy of 13 TeV, corresponding to an integrated luminosity of 123 fb^{-1} . No excess of events has been observed over the SM background. Upper limit at 95% confidence level are set on the branching fractions of these decay channels.

Presenter: BARADIA, Sweta (Saha Institute of Nuclear Physics (IN))

Session Classification: Parallel Session