Search for the Standard Model Higgs Boson in ZH(bb) where the Z Boson Decays into a tau Pair and Each tau Decays into Leptons

Friday, 16 August 2013 13:00 (1h 30m)

A search for the standard model Higgs boson in pp collisions is presented in the associated production channel Z(tautau)H(bb) where each tau decays leptonically, one to an electron, the other to a muon. A data sample comprising of 5.0 fb-1 at center-of-mass energy 7 TeV and 19 fb-1 at center-of-mass energy 8 TeV collected by the CMS detector at the LHC has been analyzed and 95% confidence level upper limits on the production cross-section relative to the Standard Model prediction are presented for the 110-150 GeV Higgs mass range.

APS member ID

61074230

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Track Classification: Electroweak Symmetry Breaking and the Higgs Sector