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Probing Higgs and seesaw scale type III seesaw at the LHC

We show that the type III seesaw mechanism opens up a promising possibility of searching the Higgs boson in the $b\bar{b}$ channel through the Higgs production associated with a charged lepton coming from the decay of the triplet seesaw particle. In particular we look for the $2b$ signals with trileptons or same-sign dileptons to construct the Higgs and the triplet fermion mass and calculate the reach with the integrated luminosity of 10 fb^{-1} at the 14 TeV LHC. We also investigate the inclusive leptonic modes and probed the seesaw mass scale at the LHC.

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