



ID de Contribution: 133

Type: YSF (Young Scientists Forum)

Evidence of the SM Higgs Boson in the Decay Channel into Tau Leptons

vendredi 21 mars 2014 20:26 (5 minutes)

A search for the standard model Higgs boson decaying into a pair of tau leptons is performed using events recorded by the CMS experiment at the LHC in 2011 and 2012. The dataset corresponds to an integrated luminosity of 4.9/fb at a centre-of-mass energy of 7 TeV and 19.7/fb at 8 TeV. An excess of events is observed over the expected background contributions, with a local significance larger than 3 standard deviations for m_H values between 110 and 130 GeV.

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Classification de Session: Young Scientist Forum 4