

ICHEP2012



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Type: **Poster Sessions**

Higgs boson coupling measurements at the LHC using $H \rightarrow \tau\tau$ decays.

Saturday, 7 July 2012 18:00 (1 hour)

We investigate the potential for measuring the relative couplings of a low-mass Higgs boson at the Large Hadron Collider using $W H$, ZH , and ttH production, where the Higgs boson decays to tau-lepton pairs. With 100

fb^{-1} of $\sqrt{s} = 14$ TeV pp collision data we find that these modes can improve coupling-ratio sensitivity for a Higgs boson mass between 115 and 135 GeV/c².

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Session Classification: Poster Session

Track Classification: Track 1 - The Standard Model and EW Symmetry Breaking - Higgs Searches