



Contribution ID: 147

Type: **not specified**

Measurement of double Higgs production at CLIC

Thursday, 21 January 2016 11:10 (20 minutes)

We present a study of the $HH\nu\nu \rightarrow bbb\nu\nu$ and $HH\nu\nu \rightarrow bbWW\nu\nu$ channels, with sub channels of WW decaying fully hadronically, semi-leptonically and fully leptonically. These channels are useful for probing the Higgs triple gauge coupling and quartic coupling. Reconstructed particles are grouped into a number of jets according to signal topology. B jets are identified using the LCFIPlus processor and a BDT classifier completes the signal selection. Current measurement precisions will be presented.

Presenter: XU, Boruo (University of Cambridge (GB))

Session Classification: CLICdp: Physics and Analysis