



# Double Higgs Production at Colliders Workshop

## Wednesday, 5 September 2018

### Experimental Signatures: $H(bb)H(\text{gammagamma})$ - One West (WH1W) (11:30 - 13:00)

-Conveners: James Robinson; Francesco Micheli

time	[id] title	presenter
11:30	[23] ATLAS experimental summary	BROST, Elizabeth
12:00	[24] CMS experimental summary	GOUZEVITCH, Maxime
12:30	[25] Plans and perspectives for Run II and beyond	DELGOVE, David

### Experimental Signatures: $H(bb)H(bb)$ - One West (WH1W) (14:00 - 16:00)

-Conveners: David Wardrope; Caterina Vernieri

time	[id] title	presenter
14:00	[12] b-tagging online, b-jet triggers and future plans	ALISON, John
14:30	[17] Identifying boosted $H \rightarrow bb$	KAGAN, Michael Aaron
15:00	[13] CMS Analysis Strategy, with focus on non-resonant	TIKO, Andres
15:30	[14] ATLAS Analysis Strategy, with focus on non-resonant	SCHAARSCHMIDT, Jana

# Thursday, 6 September 2018

## Experimental Signatures: $H(bb)H(\tau\tau)$ - One West (WH1W) (09:00 - 10:30)

-Conveners: Katharine Leney; Luca Cadamuro

time	[id] title	presenter
09:00	[26] ATLAS analysis overview	BETTI, Alessandra
09:30	[27] CMS analysis overview	CADAMURO, Luca
10:00	[33] Trigger strategies for $bb\tau\tau$	BETHANI, Agni

## Experimental Signatures: $H(bb)H(\tau\tau)$ - One West (WH1W) (11:00 - 12:20)

-Conveners: Katharine Leney; Luca Cadamuro

time	[id] title	presenter
11:00	[28] ATLAS and CMS overview + comparison of selections and fitted variables	FERRARI, Arnaud
11:30	[30] ATLAS and CMS overview + comparison of reconstruction and bkg estimation methods <b>**remote**</b>	BRIVIO, Francesco
12:00	[54] Trigger strategies for VBF $HHbb\tau\tau$ <b>**remote**</b>	AMENDOLA, Chiara

## Experimental Signatures: $H(bb)H(VV)$ - One West (WH1W) (14:40 - 16:00)

-Conveners: Kuver Sinha; Suyog Shrestha; Rami Kamalieddin

time	[id] title	presenter
14:40	[36] Theory talk specific to $bbVV$	Dr HAN KIM, Jeong Dr GHOSH, Tathagata
15:10	[38] ATLAS analysis overview: $bbWW$ and $bbZZ$	PALACINO, Gabriel
15:40	[41] Dedicated object reconstruction techniques for $bbVV$	VEATCH, Jason Robert

## Experimental Signatures: $H(bb)H(VV)$ - One West (WH1W) (16:30 - 17:00)

-Conveners: Kuver Sinha; Suyog Shrestha; Rami Kamalieddin

time	[id] title	presenter
16:30	[44] CMS analysis overview : $bbZZ$	HORTIANGTHAM, Apichart
16:45	[43] CMS analysis overview : $bbWW$	HUANG, Tao

# Friday, 7 September 2018

## Experimental Signatures: Other signatures - One West (WH1W) (11:30 - 13:10)

-Conveners: Yaquan Fang; Christian Veelken

time	[id] title	presenter
11:30	[29] The analysis of HH->WWgamma gamma with the ATLAS detector	ZHOU, Maosen
11:50	[35] HH->WW*WW* analysis with ATLAS detector	LI, Liang
12:10	[34] Reconstruction of the HH mass in the HH->4tau channel	VEELKEN, Christian
12:30	[31] The analysis of HH->4tau with the CMS detector	NANDAN, Saswati

## Experimental Signatures: Combination and other common topics - One West (WH1W) (14:00 - 16:20)

-Conveners: Maxime Gouzevitch; Arnaud Ferrari

time	[id] title	presenter
14:15	[63] Interferences in searches for heavy Higgs bosons	LIEBLER, Stefan Rainer
14:30	[51] ggHH generation and benchmarks	CARVALHO ANTUNES DE OLIVEIRA, Alexandra CARVALHO ANTUNES DE OLIVEIRA, Alexandra
15:05	[53] VBF HH generation and benchmarks	BURCH, Tyler James
15:30	[64] Interference effects in the alignment scenario	CARENA, Marcela