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# H -> WW\* Process

## Goal of the group

## Group Contacts

- Tiesheng Dai (Michigan), Javier Cuevas (Oviedo)

## Group Members

- Experiment: Everybody who wants to contribute
- Theory: Everybody who wants to contribute

## Plan of the Activity (both Higgs signals and SM backgrounds)

- differential K-factor
- overview of background determination methods (data-driven, non-data driven)
- list of LO/NLO Monte Carlo's
- wish List for theorists

## Common cuts definition between ATLAS and CMS

- 1)  $pt_{l1/l2} > 20$ ,  $|\eta_{l1/l2}| < 2.5$
- 2)  $MET > 30$
- 3)  $m_{ll} > 12$
- 4)  $pt_{jet\_max} < 30$  for  $|\eta_{jet}| < 3$  with Anti KT jet of cone size 0.5

## Available Tools

## Results

- TwoJetContribution from gluon fusion in the vector boson fusion phase space

## References

## Meetings

- CERN InDico Agenda [↗](#)

## Links

-- ReiTanaka - 02-Oct-2010

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