

Weekly Report

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Poster will be preseted @CLHCP **ATLAS HH->4W results with 36.5/fb data**

https://indico.cern.ch/event/857442/contributions/3609147/attachments/1929805/3195922/CLHCP_Poster.pdf

Scale_nom =raw_crossection*kfactor/sumofweights

	450661	450662	450663	450578
mc_rawXSection	0.00835021	0.00407596	0.00128159	0.013685
Filer eff	0.301	0.147	0.046	0.5016

Investigate in ee channel

ee channel	450661(mc 16a)	450661(mc16d)	450662(mc16a)	450662(mc16d)	450663 ~5%
offical	0.153894	0.000186269	0.045021	0.0987825	Not aviable
Mine(require Trigger)	0.150166	0.130251	0.0708073	0.114858	
Scale_nom(offical)	7.165e-07	7.16e10^-10	3.497e-07	3.497e-07	
Scale_nom	6.992e-07	5.19*10-7	5.597e-07	4.178e-07	

Throw away fakes background to train

	signal	Vgam	QmisID	prompt	fake
entries	4680	209	52135	236166	21149

Factory set: Hard to avoid overtraining

```
factory->BookMethod( TMVA::Types::kBDT, "BDTG",503
"!H:!V:NTrees=450:nEventsMin==100:BoostType=Grad:Shrinkage=0.10:UseBaggedBoost:BaggedSampleFraction=0.5:nCuts=28:MaxDepth=3" );
```

