

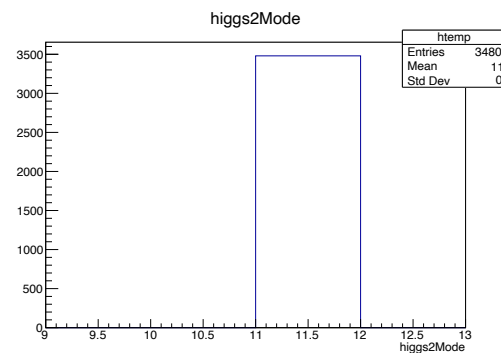
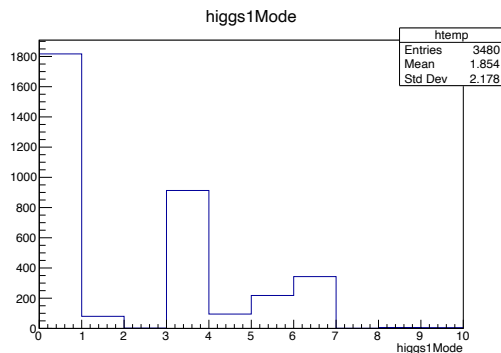
Weekly Report

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13/01/2019

HHML GN1 study

- Start looking though gn1 code
 - Local ran successfully with Z->ee(FS_mc16a) process failed with hh->2l(AF_mc16a) signal though
 - Was tagged as a kind of common errors , because of using PRW for wrong periods
 - Good Run List and PRW configuration are for mc16a for both Z->ee and hh(AF_mc16a)->2l, so I didn't figure out yet.
- Test output(hh->bbZZ->4l,according to the file Nazlim shared) validation before submitting massive jobs
 - New variables for di-higgs decay mode:higgs1Mode, higgs2Mode



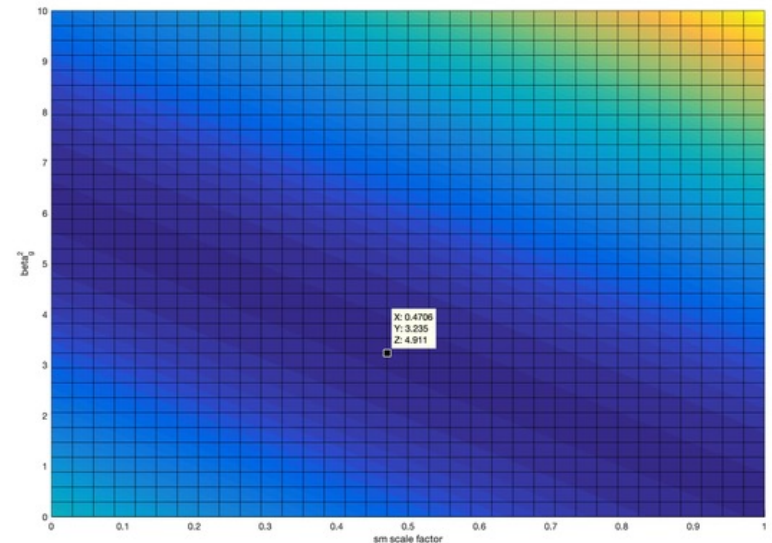
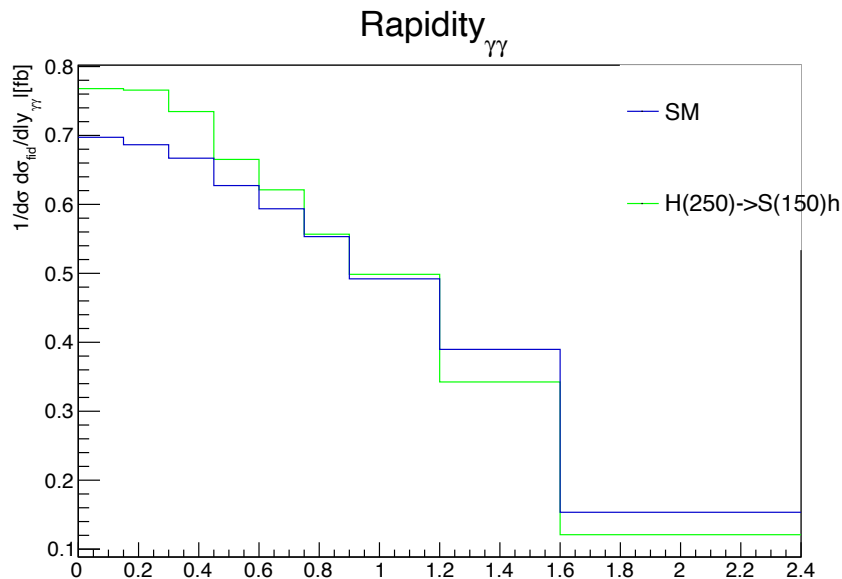
- Should be a truth-level info? Then those plot can't be understood

H->Sh fitting issue

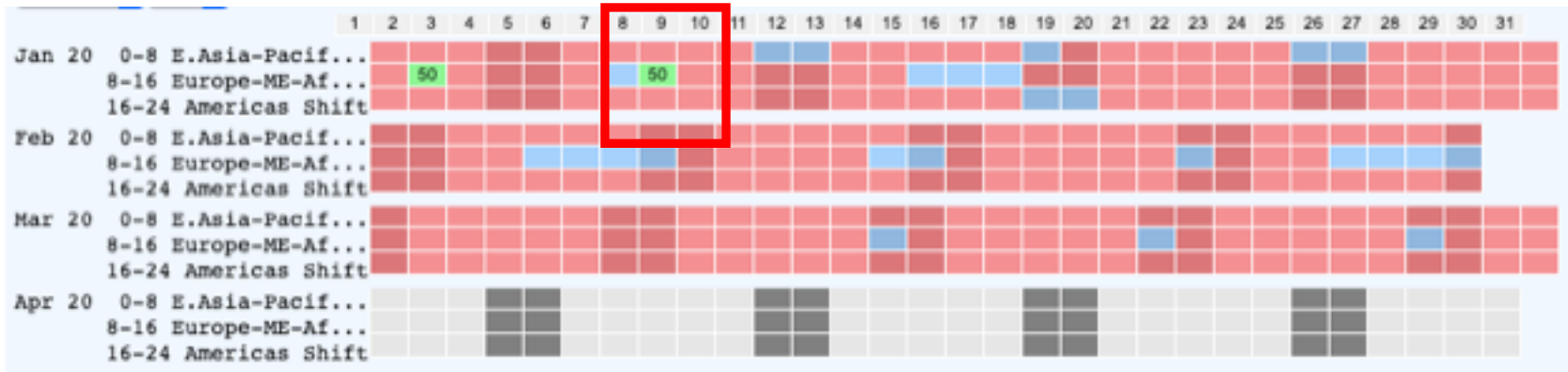
- The input number should be correct now.
Integrated from each bin
- Fixed results: 0.357 corresponding to ATLAS
H->yy data; BSM Xsec = 10.46fb
- Float SM contribution:
- Scale factor value sm 0.4663, bsm 3.4407

BSM	DATA	SM
1.21174	8.54991	6.61629
1.20832	8.11622	6.51411
1.15925	4.379	6.32891
1.04972	6.54594	5.9521
0.980117	5.93969	5.63279
0.878568	6.43892	5.2496
1.57344	9.59586	9.33687
1.44108	9.18708	9.86056
1.01777	6.634	7.76584
10.520005	65.38662	63.25707

Didn't show error of data and sm here,
err of bsm are ignored



- “shift” on shift



- Somehow the browser shows the timetable wrongly.
- Missed my time and move to the day after I intended to
- Completed this shift with a safe landing

Backup sides

• Configuration for mc16a

GRLDir GoodRunsLists

GRLFile data15_13TeV/20170619/physics_25ns_21.0.19.xml data16_13TeV/20180129/physics_25ns_21.0.19.xml

PRWConfigFiles_FS dev/AnalysisTop/PileupReweighting/user.iconnell.Top.PRW.MC16a.FS.v2/prw.merged.root

PRWConfigFiles_AF dev/AnalysisTop/PileupReweighting/user.iconnell.Top.PRW.MC16a.AF.v2/prw.merged.root

PRWLumiCalcFiles GoodRunsLists/data15_13TeV/20170619/PHYS_StandardGRL_All_Good_25ns_276262-284484_OflLumi-13TeV-008.root

GoodRunsLists/data16_13TeV/20180129/PHYS_StandardGRL_All_Good_25ns_297730-311481_OflLumi-13TeV-009.root

