



Snowmass EWK ssWW

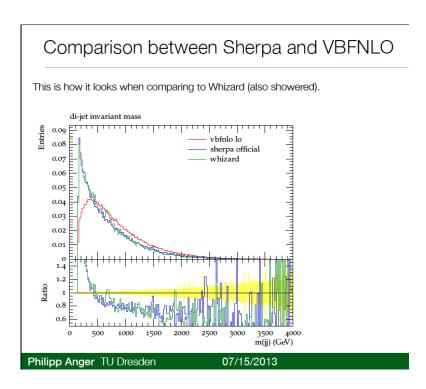
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Insight into low invariant mass region on significance plots:

- A similar issue was noted in the 8 TeV analysis meeting between different generators. The main difference being that the vbfnlo was not showered.
- We used different showering for ATLAS results and snowmass.... Maybe this is the cause of the difference we see as well?





Technical Report:

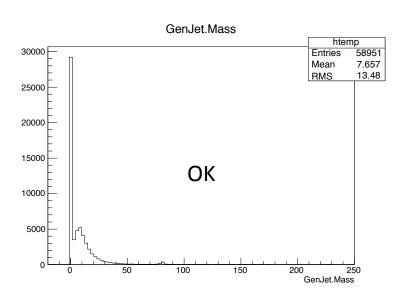
- I had difficulty setting up the "analysis", i.e. after showering, the root code that applies cuts and creates proper histograms for limit setting input.
- My showered files crashed while Shu's files ran fine (same with my code and his, where my code is just adapted from Shu's, should be straight forward)
 - I noticed some differences in our root files from showering, particularly extra branches in my file like EFlowTrack (don't need)
 - I am rerunning now, but it looks like I used the VLHC Fast Simulation and Pileup Strategy (from snowmass website), while Shu used the instructions for Inclusive Samples
 - This fixes running on the analysis code!!
 - Next: rerun Madgraph since I used v1_5_10, which had a bug (Thanks Mandy!) –need to check the size of affect
 - ◆ Are we all being consistent in our prescription???
- Unitarization cut-off:
 - When do others apply the unitarization cut-off? Do you just throw events away above the threshold? Or are we doing something more fancy?



Another possible issue:

• Has anyone checked their jet mass distributions?

Before Showering:



After Showering:

