

To do list for paper

- Time scale: end of March/beginning of April (Higgs approval 29 Mar)
 - b-tagging scale factors: got final b-tagging scale factors yesterday
 - There will be a new update in next few days but only for c-tag SFs for JetFitterComb - doesn't affect us
 - METUtility: will move to new version for final analysis run
 - Jet pileup correction: to be applied for final run – finally not much improvement (if any) but already in the code
 - Di-b-jet mass scale: will apply 5% correction to $m(b,b)$
 - Top normalization scale factors:
 - Changing to new method to improve consistency with W+jets and with ZH->lvbb analysis
 - ΔR_{jj} study: look again at low ΔR_{jj} region to answer EB questions
 - Limits:
 - Cross checks ongoing, but looks like asymptotics not good enough – differences between Lianliang and Silje because of Asimov set determined at different values of μ (!)
 - Giacinto trying different approach but no agreement
 - Smoothing of backgrounds:
 - Previously done in llbb/lvbb but not on vvbb – need input from stats forum!
 - Theory uncertainties should be revisited slightly: to do
- Boosted H->bb – lots of interest from elsewhere!
 - Hope will converge in Summer
 - Not many people...
- ttH activity ramping up
 - Similar to vector-boson like quarks but different enough to make it a Higgs analysis
 - Could have results for summer maybe
- Z->bb having difficulties:
 - Bug found in g->bb samples – being re-generated
 - Re-produced AFII g->bb – bad description of data
- Possible Technicolor interpretation of H->bb
 - Thinking about this

