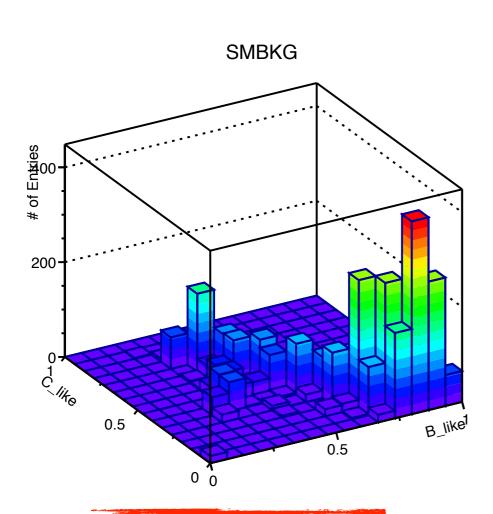
H->bb/cc/gg at 350 GeV

CLICdp WG Analysis Meeting - 25 Feb 2015 Marco Szalay

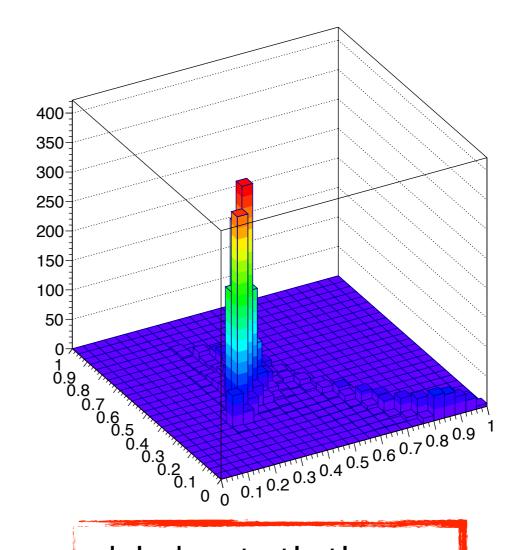




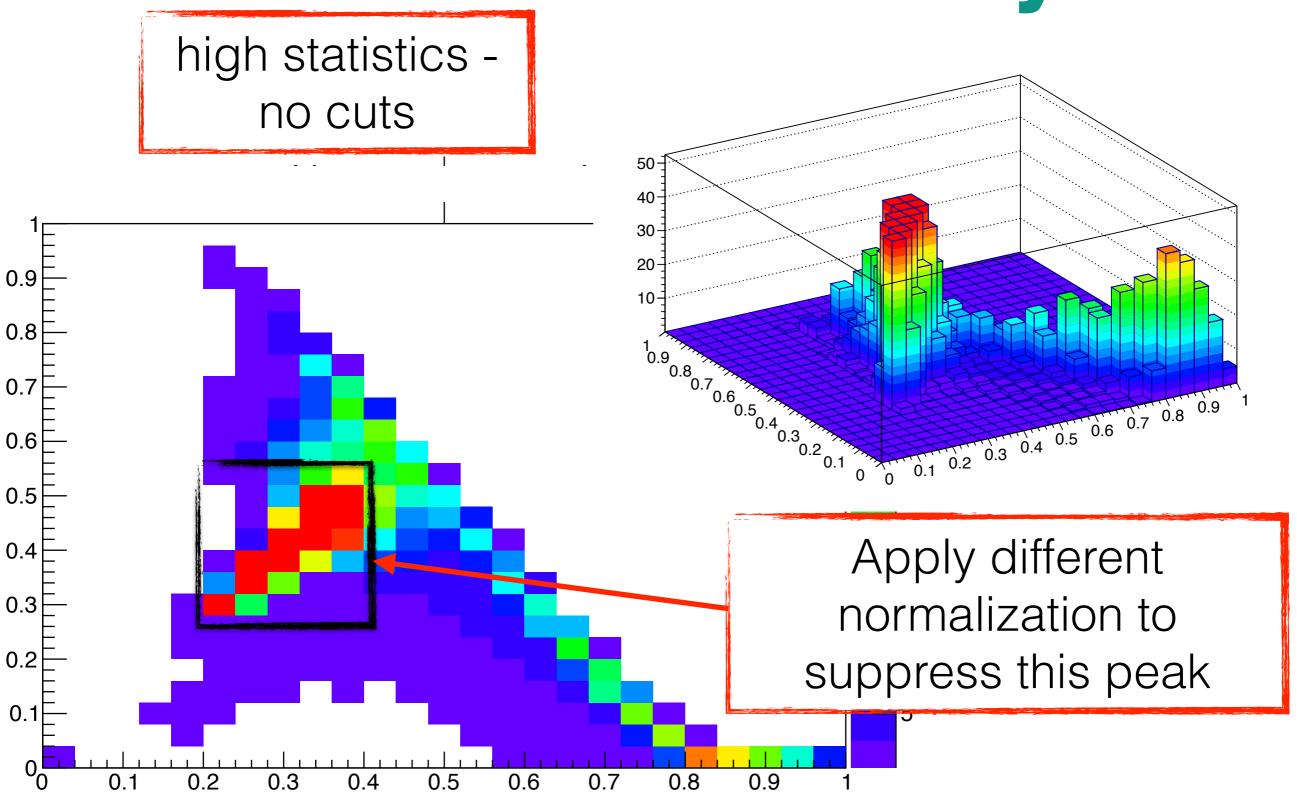
- Statistics in H->gg and H->cc templates fixed thanks to dedicated additional production
- Statistics in SM background template still low, can't be recovered by increasing statistics
 - Use the full statistics without cuts to produce templates
 - Normalize the template to the number of bkg events that pass the cuts
 - Statistical fluctuations should be considerably dumped



With cuts - low statistics



high statistics - no cuts



- In practice the cut is complicated by the vicinity to the signal region of the CC template
- The cut is in a 3D space for the Hvv analysis, so a lot of trial and error involved
- ROOT histogram smoothing does not preserve overall normalization
- 1D fit is almost done