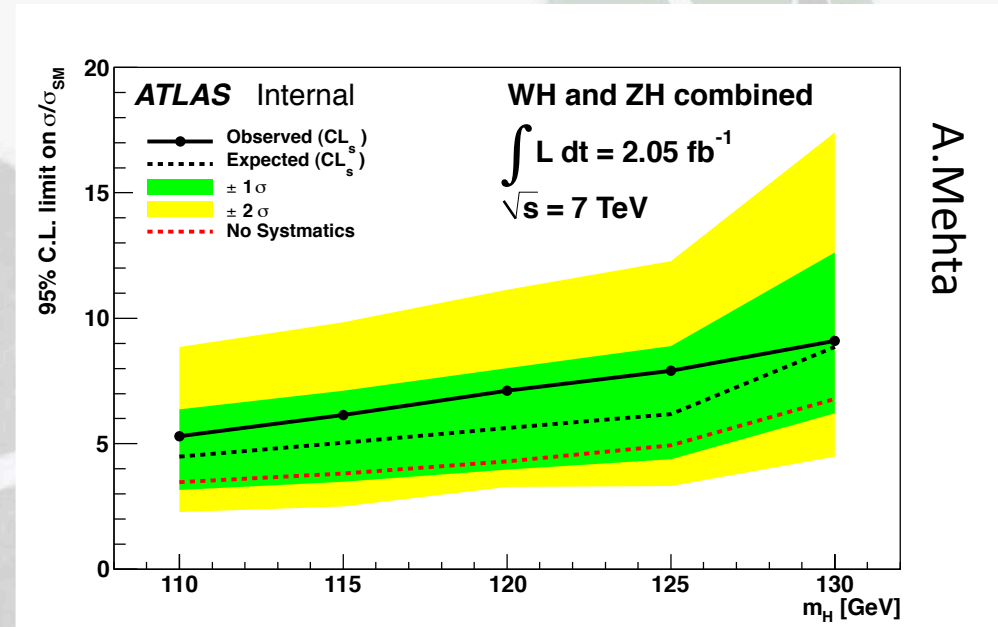


# HSG5

- Monte Carlo:
  - Signal: new Powheg signal samples in MC11b with priority 1
  - Backgrounds:
    - Top: mostly priority 0/1 except single top (2)
    - WW/WZ/ZZ: ok;  $\approx 10 \times 5\text{fb}^{-1}$ , priority 0
    - W+jets/h.f., Z+jets: priority 0,  $L_{\text{MC}} \approx 2 \times 5\text{fb}^{-1}$
    - Z+h.f. priority 1 and good stats ( $\approx 10 \times 5\text{fb}^{-1}$ )
    - QCD: bb, cc  $\approx 1\%$  of  $5\text{fb}^{-1}$
- Analyses for December:
  - WH->l $\nu$ bb and ZH->llbb may be ready
    - Availability of MC is the main obstacle so far
    - Not clear yet on b-tagging and JES/JER corrections and uncertainties
    - Encouraging results in rel.16 after optimization
  - ZH-> $\nu\nu$ bb probably won't make it:
    - Missing background MC
    - Analysis not yet mature
  - Need to find good solution for limit setting and combination
    - Probably bad idea but... would like to have common setup to build workspaces and run limit calculations to be used in HSG5 – starting from common set of histogram (fixed names)



A.Mehta

- AOB:
  - Nothing new on CP issues in past week
  - D3PD skims starting to appear and being debugged
  - At the same time planning MC samples for later analyses