Minutes of CEPC HZZ Meeting

Online, 2020-04-29

Meeting indico link: https://indico.ihep.ac.cn/event/11459

Memo Update

- Finished six channel's BDT study including fitting (Min)
- Updated memo with unified cut-based values (Yanxi)

Draft Update

- N.A.

Actions

- 1. Memo v1.1
 - 1.1. Add standalone section with these new set of cuts for the final BRs with stat. uncert. (Yanxi)
 - 1.2. Add section to compare the results of v1.0 and v1.1, check if they agree within 1- sigma (Yanxi)
- 2. Memo v1.2
 - Previously, the purpose for v1.2 is to keep only the default cuts. After the discussion today, we decide to keep both. So, we'll move the v1.3 to v1.2
 - 2.1. Add one paragraph to summarize the v1.0 cut results and comparison with the v1.1 table, conclude these two sets are consistent within one-sigma, so we chose the unified version for the baseline cut-based selection. (Yanxi)
 - 2.2. Update BDT results for 6 channels and fitting (Min)
 - 2.3. Add Comparison table between BDT and unified cut based (Min)
 - 2.4. Add BDT info to be used for the draft (Min)
- 3. Memo v1.3
 - 3.1. Get the numbers from white paper and proceed with Higgs width fitting (Ryuta)
- 4. Memo v1.4
 - 4.1. Study the signal/background cross-feed issue (all)
 - 4.1.1. Produce the cut flow table without the last two cuts for the first two channels of Table 1 in draft. (Yanxi)
 - 4.1.2. Compare the numbers from Yanxi and decide for the next step (Ryuta, Xin)
 - 4.2. Comparison with white paper, investigate the difference (all)
- 5. Paper Draft v1.1
 - 5.1. Incorporate comment from v1.0 and memo v1.4 (Ryuta)
 - 5.2. Submission to second round CEPC internal review
- 6. Paper draft v1.2
 - 6.1. Update with the comment from CEPC internal (Ryuta)
 - 6.2. Final touch and release to journal for review (Ryuta)