Minutes of CEPC HZZ Meeting

Online, 2020-06-30

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

Analysis Update

- Apply 2D cut (Min,Yanxi)
    - Obtain number of events after this cut, and make a comparison list
    - Confirmation of distribution on 2D map, signal & the other HZZ signals

Other discussion

- It would be benefit for us to have weekly meeting for a while

Actions

1. Apply the fitting procedure on each category (Min, Yanxi)
    1.1. Like what we did, the signal is the one under consideration and the other "HZZ" events are treated as background

    1.2. Perform the BDT analysis as well

2. Independently, try to estimate the sqrt(S+B)/S, where the signal (S) events is composed of all of "HZZ" signals (Min, Yanxi).

    2.2 Try to see this, how it goes for the fitting result, is another thread, we could think it after reflecting all of those results (into memo/draft).

3. Regarding the treatment of the other "ZH" background, check the flow and discussion there, and ask Kaili if needed (Ryuta)