## Weekly report

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**IHEP** 

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- 1) L235: do you have a photon multiplicity plot somewhere ? You may require two photons, instead of at least 2.
  - Need to add this plot.

2/8

Yu Zhang (IHEP) Weekly meeting May 22, 2017

- 2) Table 8, can you include the signal events before Pt cut for non-resonance, 400, and 500 GeV in the table ?
  - QQi

- 3) Table 10, did you include any scale factor for the lepton fake in the yields where the fake could be different between data and MC
  - QQi, could you confirm what kind of scale factor is used when estimate the yield of SM Higgs?

4) L356,  $m_{\rm ey}$  -¿  $m_{\rm e\gamma}$  and include a plot for  $m_{\rm e\gamma}$  with  $Pt_{\rm e\gamma}>100\,GeV$   $\bullet$  I will.

Yu Zhang (IHEP) Weekly meeting May 22, 2017 5 / 8

- 5)L373-376, can you compare the yields for WH+jj using pythia and herwig for parton shower systematic ? Do you include it for other MC as well ?
  - I am afraid we don't have this kind of sample...

- 6) Table 16 vs Table 20, the systematic for non-resonance and SM Higgs pair do not seem match between two tables. 7) Table 17 vs Table 19, the systematic for non-resonance and SM Higgs pair are the same, but with and without Pt cut. Can you check ? 8) Table 17 vs Table 21, should the systematic for non-resonance and SM Higgs pair be the same between two tables ?
  - QQi, please check the number.

7 / 8

- 9) L403,  $n_B$  - $\iota$   $n_{Cont}$  10) Table 27, Can you add a reference which Run 1 limit are used for the comparison ?
  - Ok