

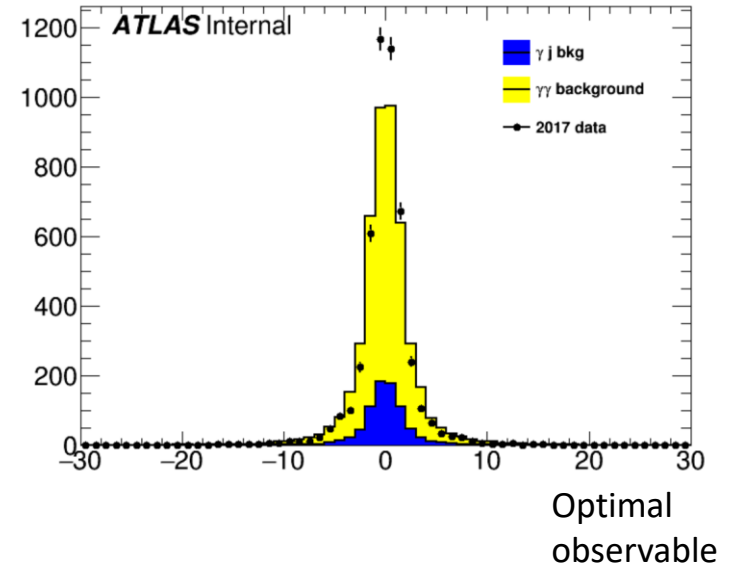
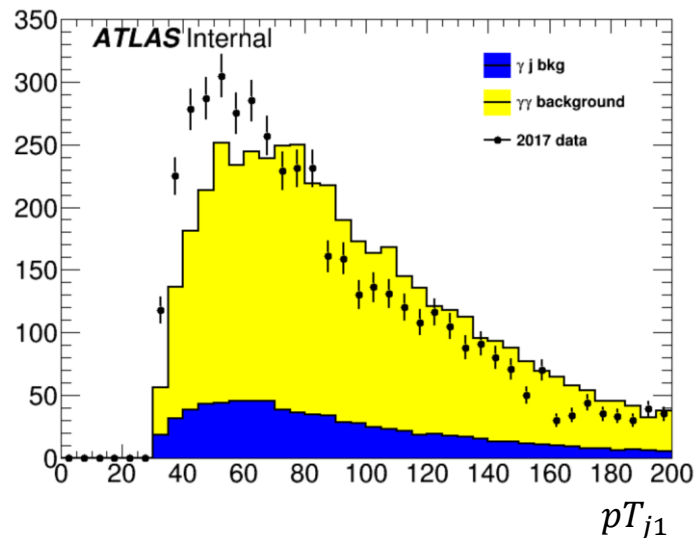
# Weekly report

---

FANGYI GUO

# Working status

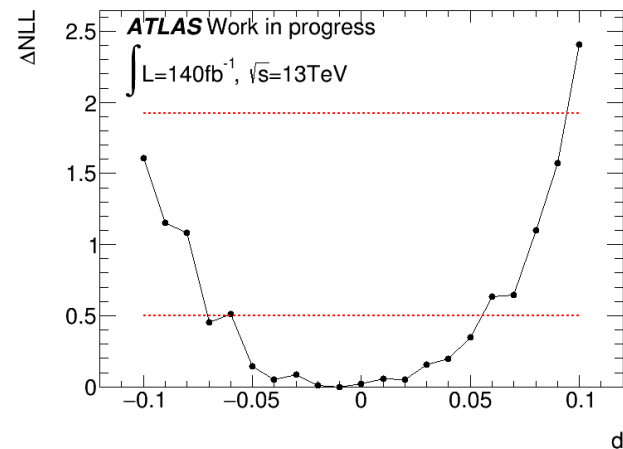
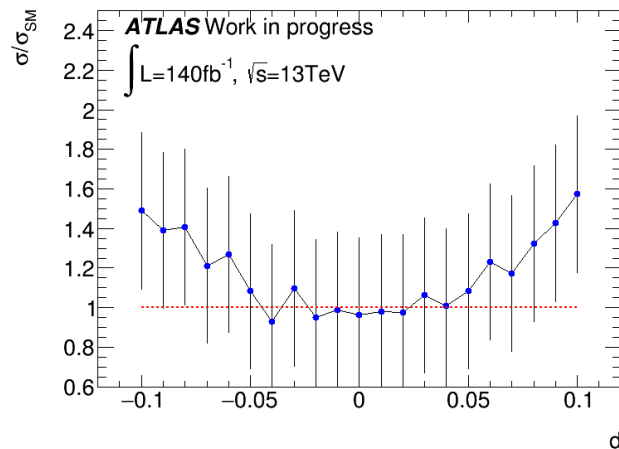
VBF Higgs CP test: use sideband data as background, to avoid the mismatch of jet performance in data and MC(met previously)



Asked some Yanping's students working in  $Z\gamma$ . They also met but in their case it doesn't matter.

# Working status

## VBF Higgs CP test



Fit  $m_{\gamma\gamma}$  to extract signal strength(left), fit  $m_{\gamma\gamma} \times \mathcal{O}\mathcal{O}$  2D distribution for  $\Delta\text{NLL}$ (right).  
May have some problem in fitting. Need to fix.

ATLAS QT: wait for Joao's approval. Replied the convener the local supervisor and institute integration.

Need to spend more time in CEPC software, analysis progress might become slow.