

work status

Maosen Zhou

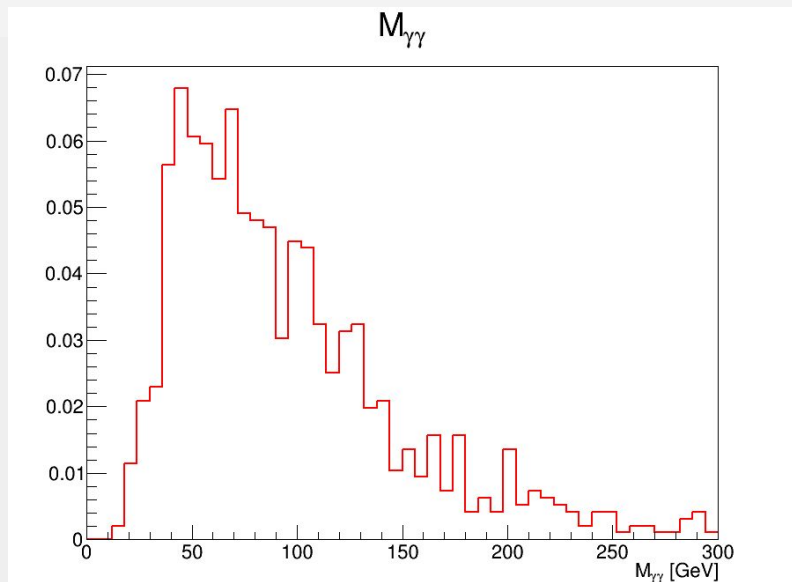
28/09/2015

sample status

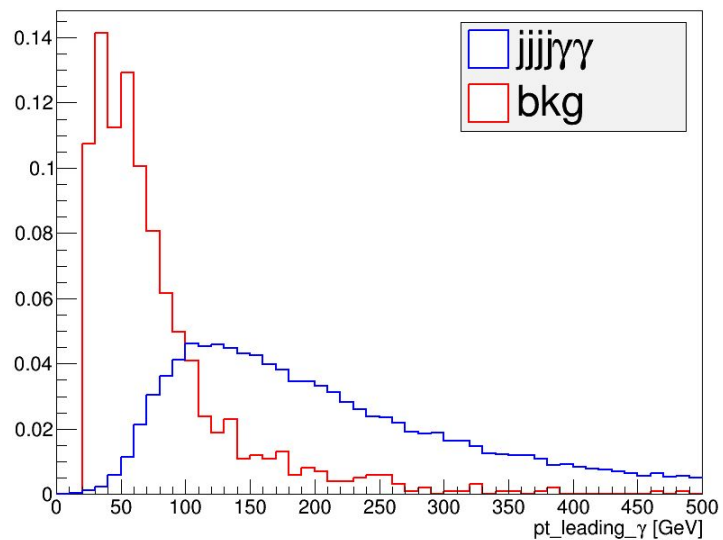
- WWyy bkg:
 - » jjjjyy, Alpgen works! 1k events ~2 hours
 - still need check, since run parameters is different from Madgraph
 - cannot set m_yy
 - » jjlvyy, lvlvyy
- WWWW signal:
 - » Hheft-300GeV_UFO, zero cross-section, maybe not implement h->ww process
 - » HeavyScalar, can only produce produce pp>hh
 - may pass the output lhe to pythia8/herwig to do h decay?
 - » actually can produce sample by JOs in athena, but the simulation takes much time!

NLO sm hh jjjj $\gamma\gamma$ vs bkg

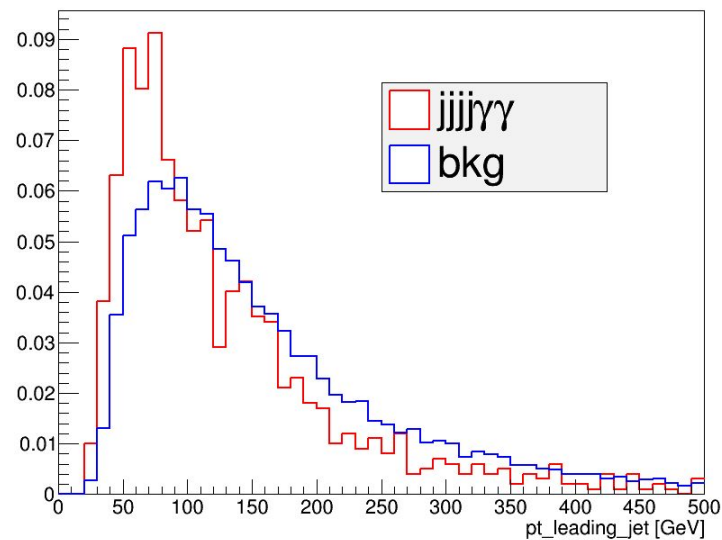
3



pt_leading_ γ



pt_leading_j



others&&to do

- ◉ Qualification task:

- ›› had a chat with Heather and Simone last week

- ›› doing 'homework'

to do list _____

- ◉ make more plots for WWyy bkg: jjlvyy, jjjjyy, lvlvyy

- ◉ produce WWW signal