#### work status

Maosen Zhou

12/10/2015

#### sample status

- WWyy bkg:
  - >> jjjjyy, checking Alpgen parameters
  - >> jjlvyy (25K), made a stupid mistake on random seeds, have to lose some samples...
- 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!

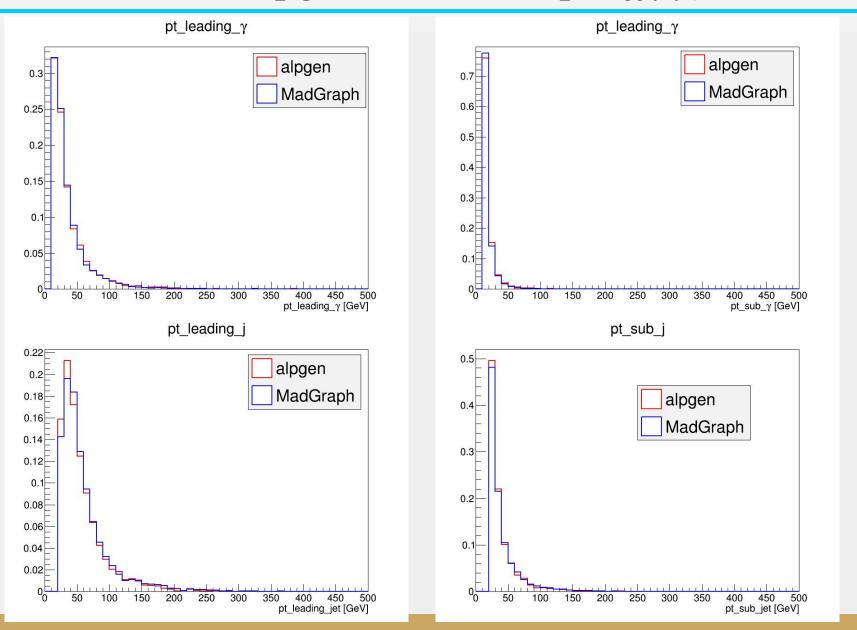


# Alpgen vs MadGraph

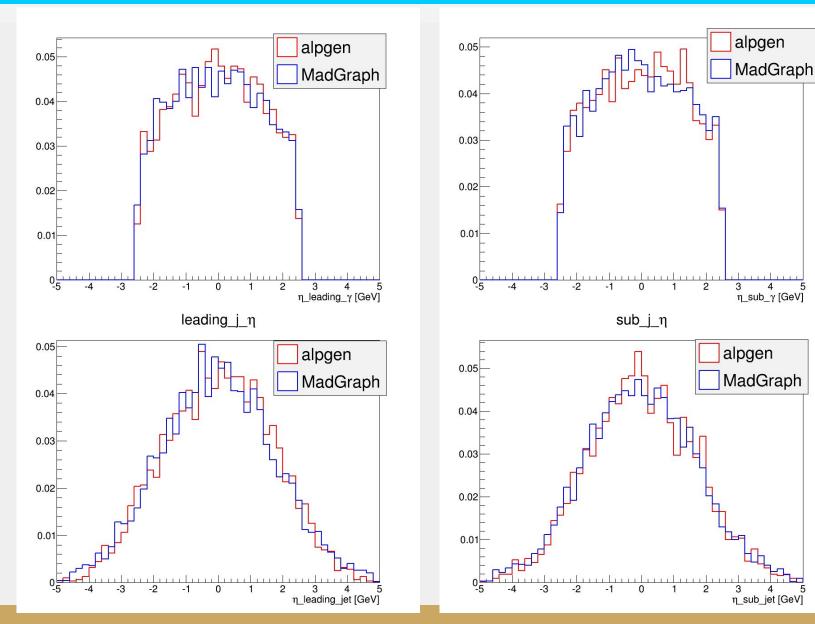
• to compare Alpgen with MadGraph, produced some jjyy samples

	1 18	production of the production o	
	Alpgen	MadGraph	
PDF	CTEQ5I	nn23lol(Ct10nlo?)	
Factorizat ion/renor malizatio n	Q=qfac*sqrt{sum( pt_ph^2+pt_jets^2 )}	False = fixed_fac_scale ! 91.188 = scale 91.188 = dsqrt_q2fac 91.188 = dsqrt_q2fac -1 = dynamical_scale_cho	t2 ! fixe
xlclu			
(lambda value fo r ckkw alpha (mat ch shower alpha)	-1	?	0.12
Ipclu(loop or der for ckkw alph a (match shower alpha)	-1	?	0.08
cluopt(kt sc ale option. 1:kt pr opto pt, 2:kt prop to mt:)	1	?	0.02

# Alpgen vs MadGraph (jjyy)



# Alpgen vs MadGraph (jjyy)



weekly meeting

### summary&to do

- Comparing to MadGraph samples, should i continue on Alpgen?
- Qualification task:
  - >> may make some plots and give a talk in a few weeks