

work status

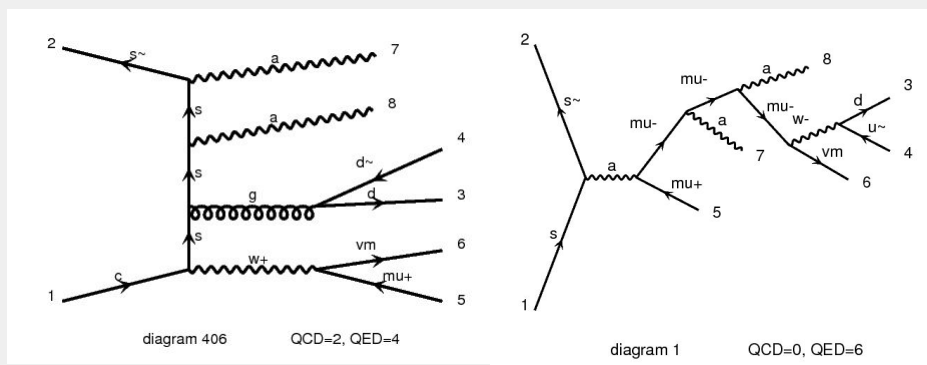
Maosen Zhou

16/11/2015

WWyy bkg samples status

- find QCD=2 include QCD=0, abandon QCD=0 request;

»QCD=2:

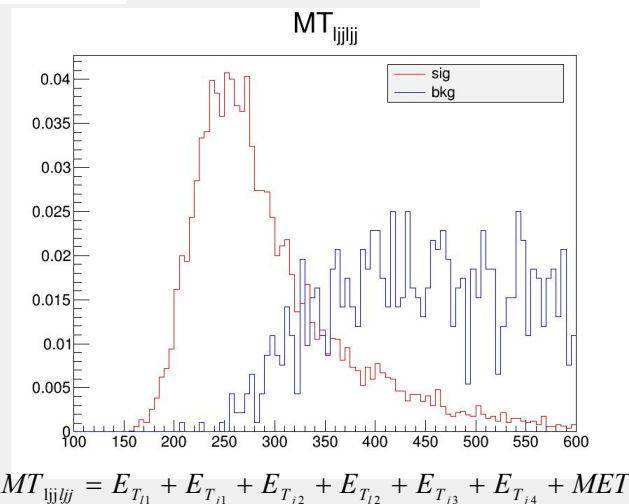
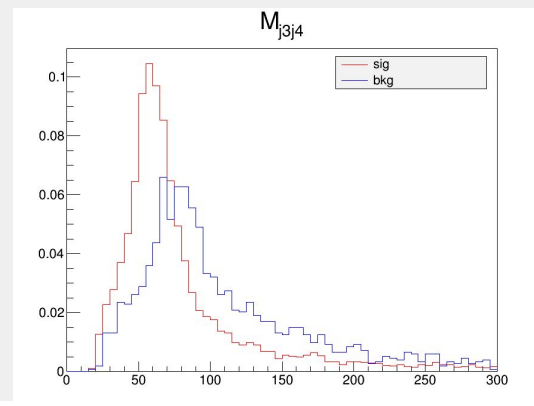
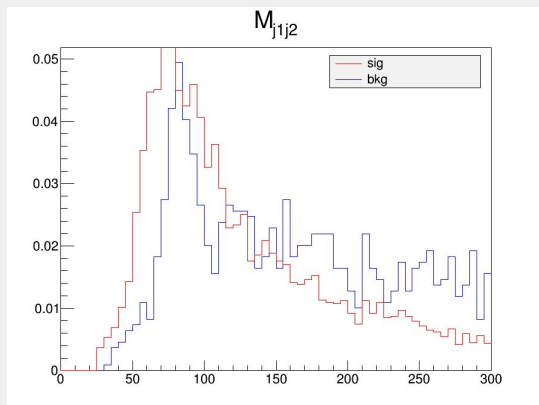


- QCD=2 validation is done;
- alpgen is dropped in MC15 production, waiting for experts' responses.

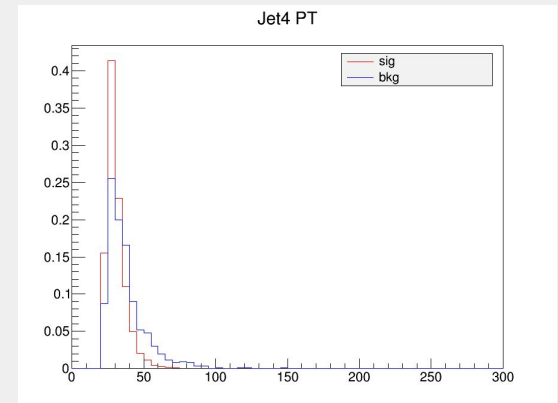
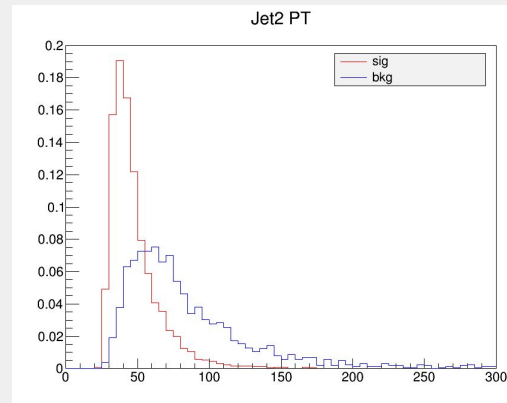
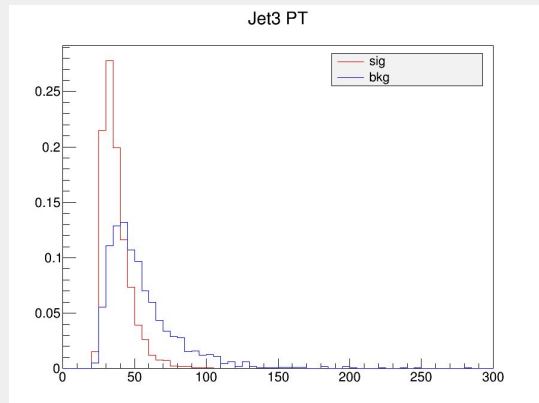
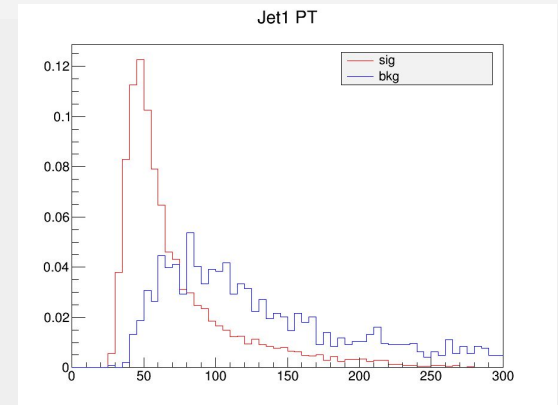
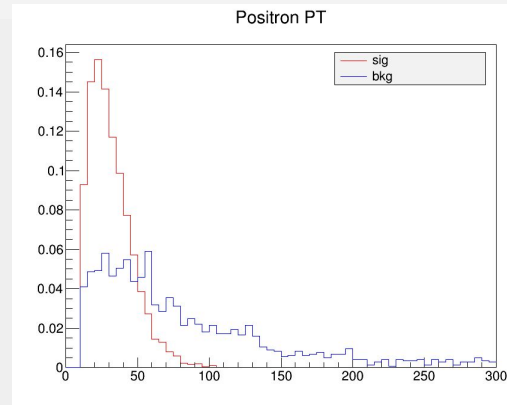
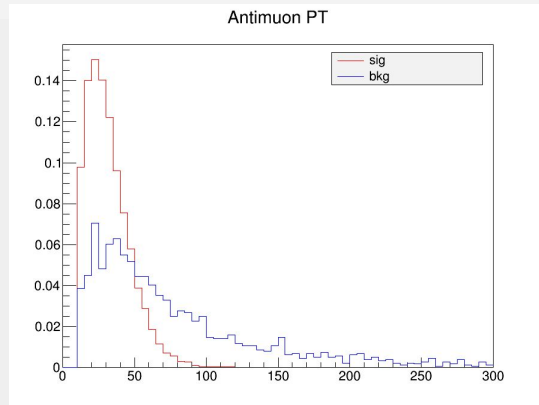
		Generators	Lumi(pb)*xsec(p b ⁻¹)	needed	currently produced	status
lvjjyy	QCD=2	MadGraph5	20k*0.03=600	100k	100k	done
	QCD=0	MadGraph5	20k*0.001=20	100k	100k	done
jjjjyy		Alpgen2	20k*12=240k	500k	500k	done
lvlvyy		MadGraph5	20k*6e-5=1.2	5k	20k	done

WWWW status

- sig: $p p \rightarrow H(300\text{GeV}) \rightarrow h h, h h \rightarrow w^+ w^- w^+ w^-, w^+ \rightarrow l^+ \nu l, w^- \rightarrow j j$ @13TeV
- bkg: $p p \rightarrow w^+ w^- w^+ w^-, w^+ \rightarrow l^+ \nu l, w^- \rightarrow j j$ @13TeV



pt shapes



- choose four leading jets(mostly match with the truth jets, proved i n last meeting)
- sig is similar with bkg for jet pt

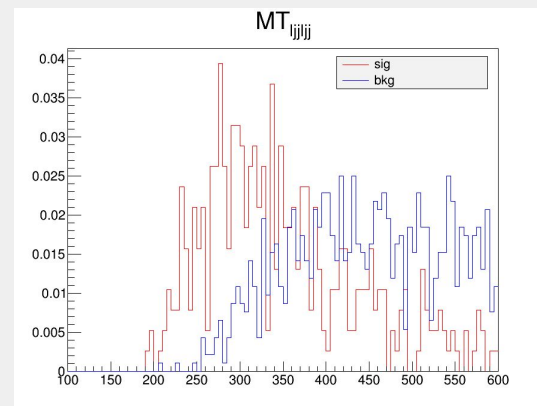
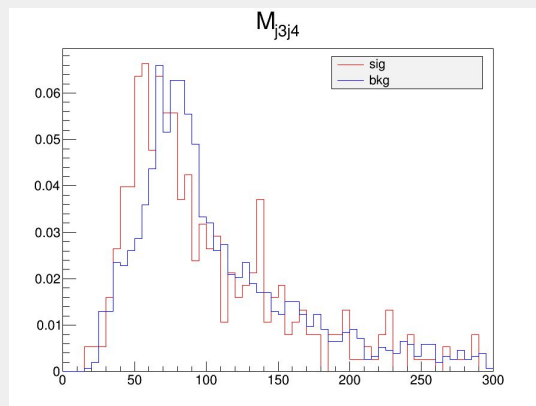
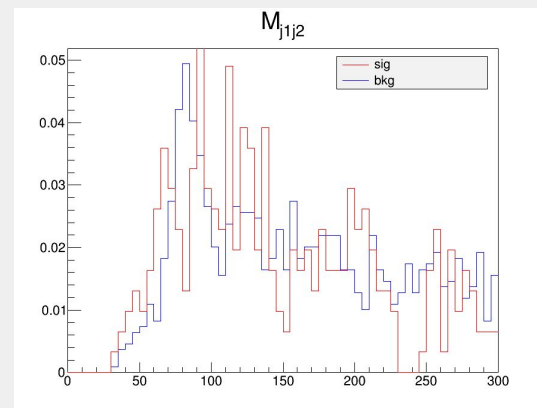
summary & to do

- ◉ BDT analysis
- ◉ more variables

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- ◉ took one shift, plan to take one next week
 - ◉ qualification task, no progress.

Backup

- maybe it's better to use more up-to-date Generators later, so try this way.
- HeavyScalar-300(MadGraph5_v2_2)+standalone Pythia8.2+Delphes3.2
- All look similar with Hheft-300GeV_UFO



pt

