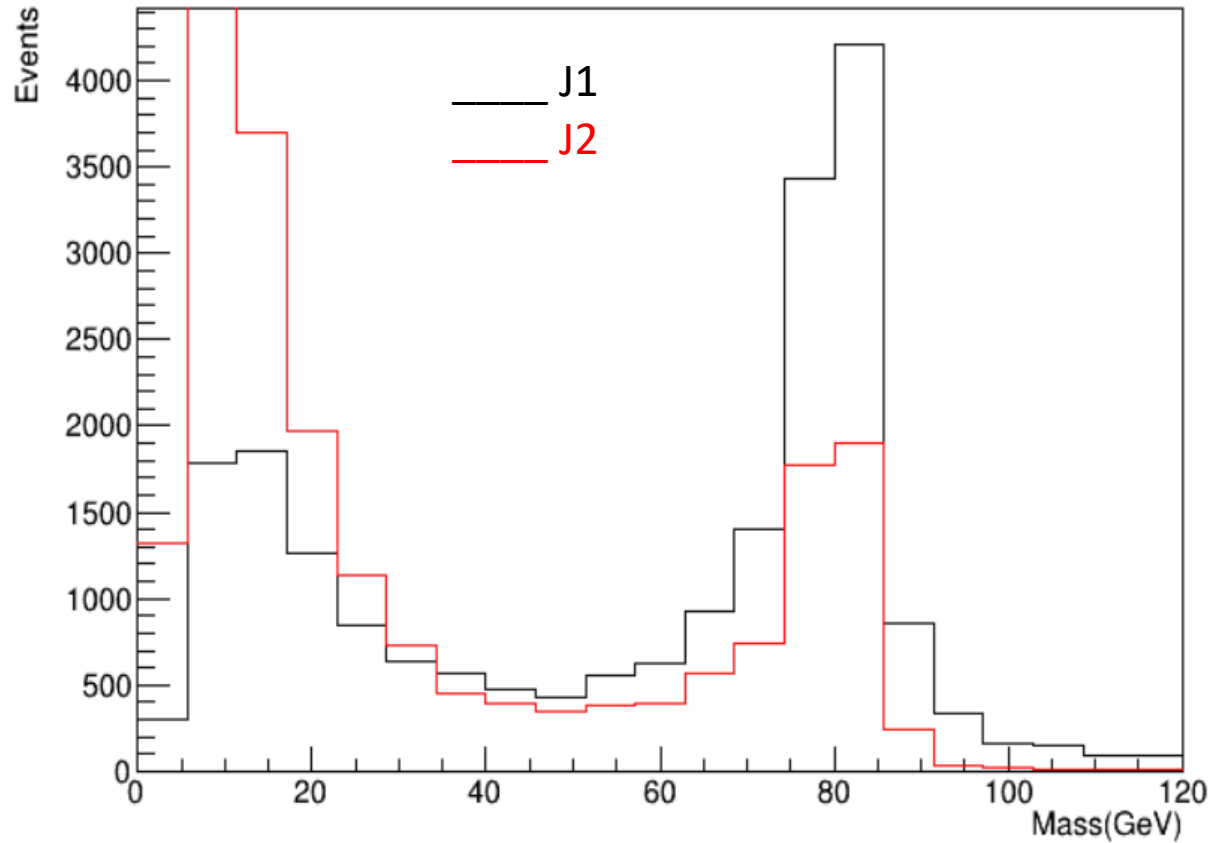


Inclusive Jet Selections using $R=1.0$

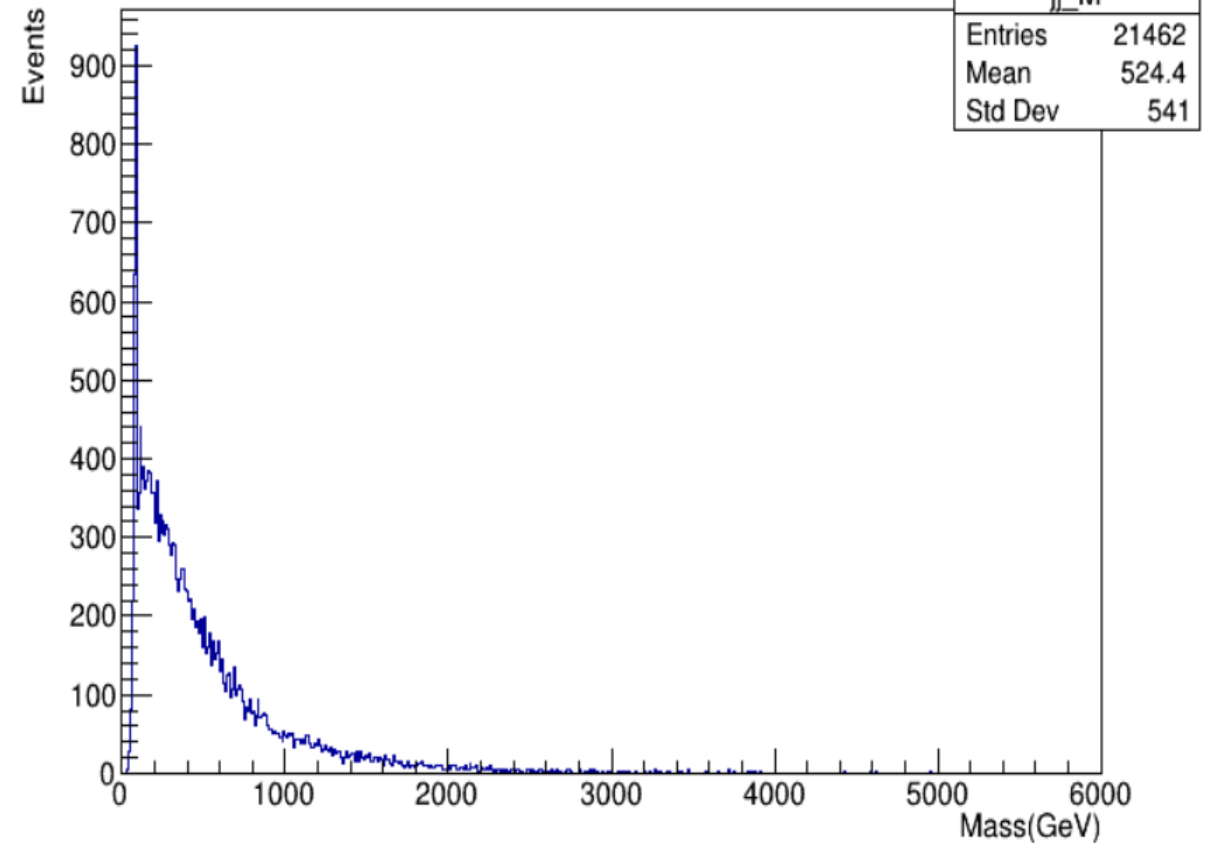
Mayuri Kawale

Using VLCR10_inclusive two leading jets,
 $|\text{quark } \eta| < 2.5$, $n_W = 2$, $n_{\text{lep}} = 0$ and $n_{\text{jets}} > 1$
%Events passing selection = 21.46

For SM events



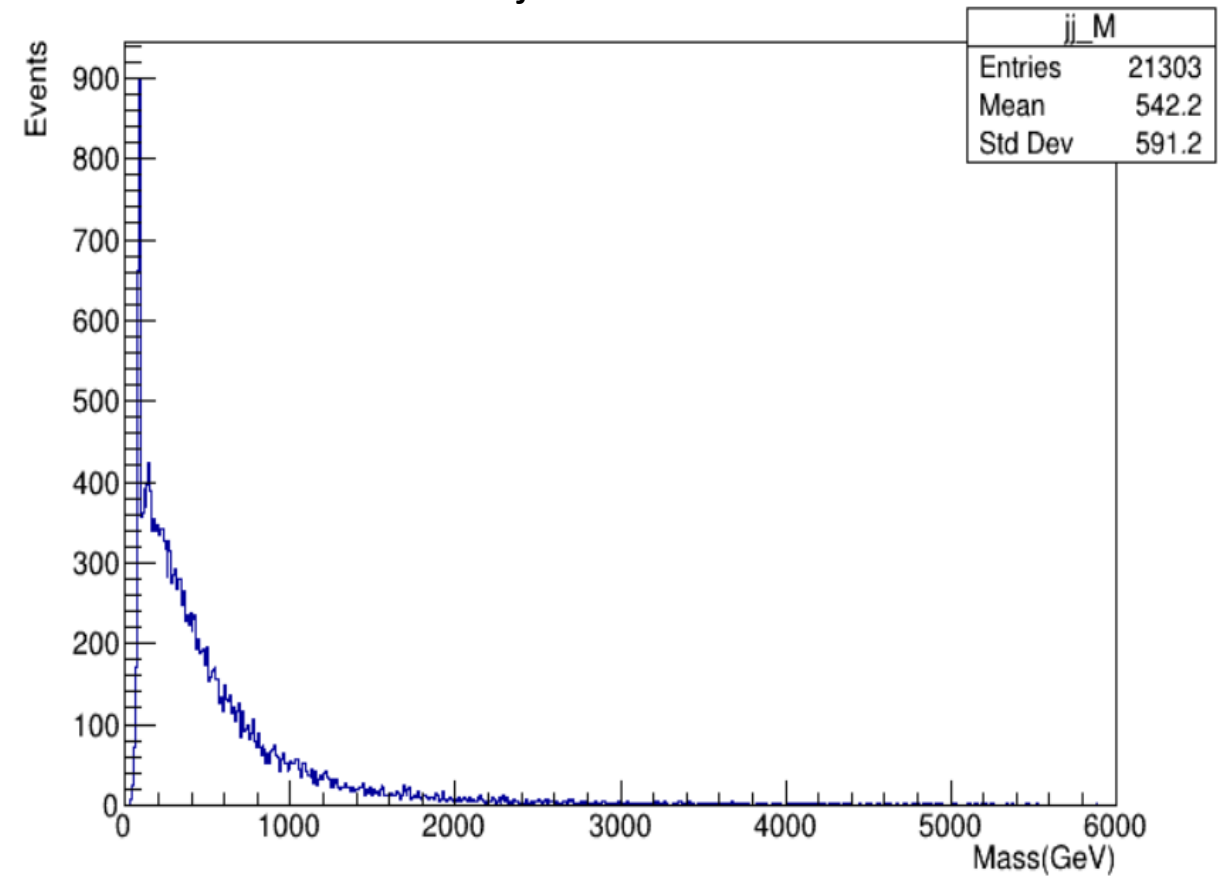
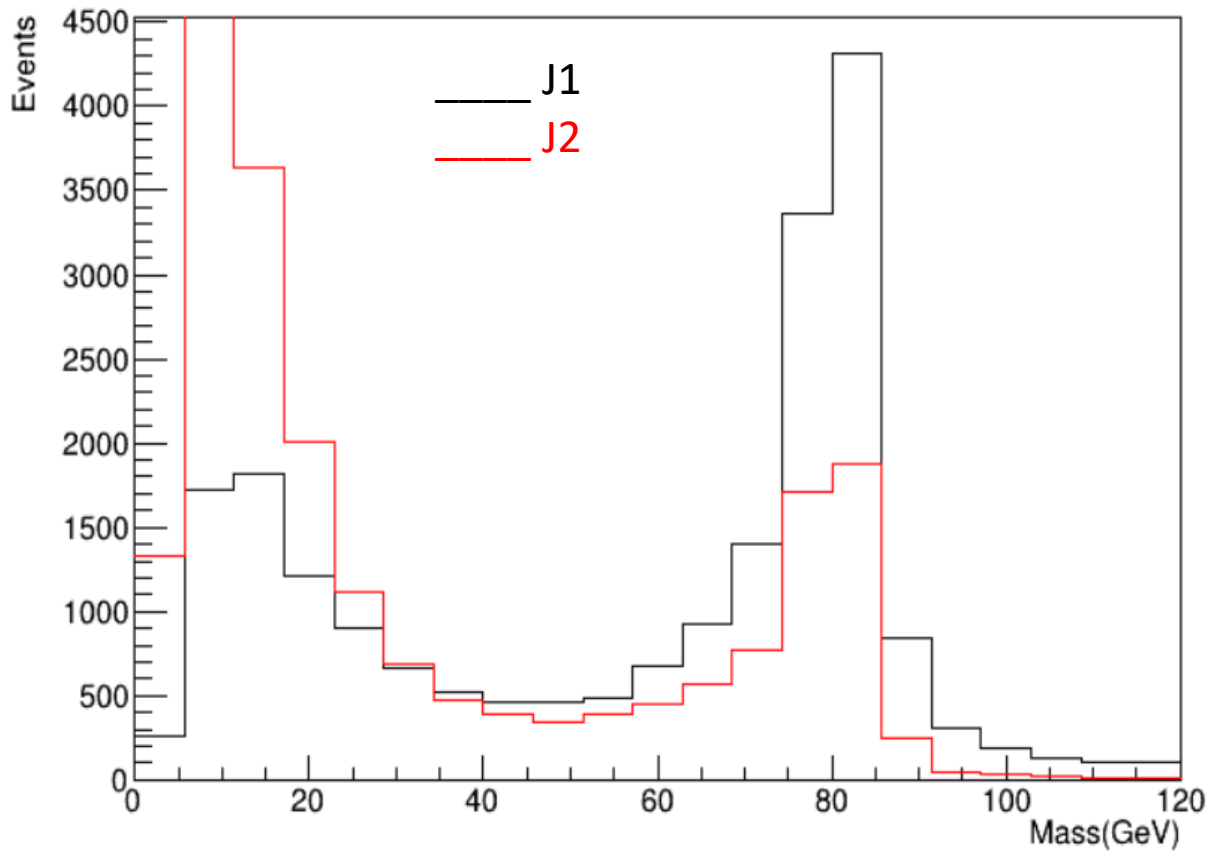
Dijet mass



Using VLCR10_inclusive two leading jets,
 $|\text{quark } \eta| < 2.5$, $n_W = 2$, $n_{\text{lep}} = 0$ and $n_{\text{jets}} > 1$
%Events passing selection = 21.3

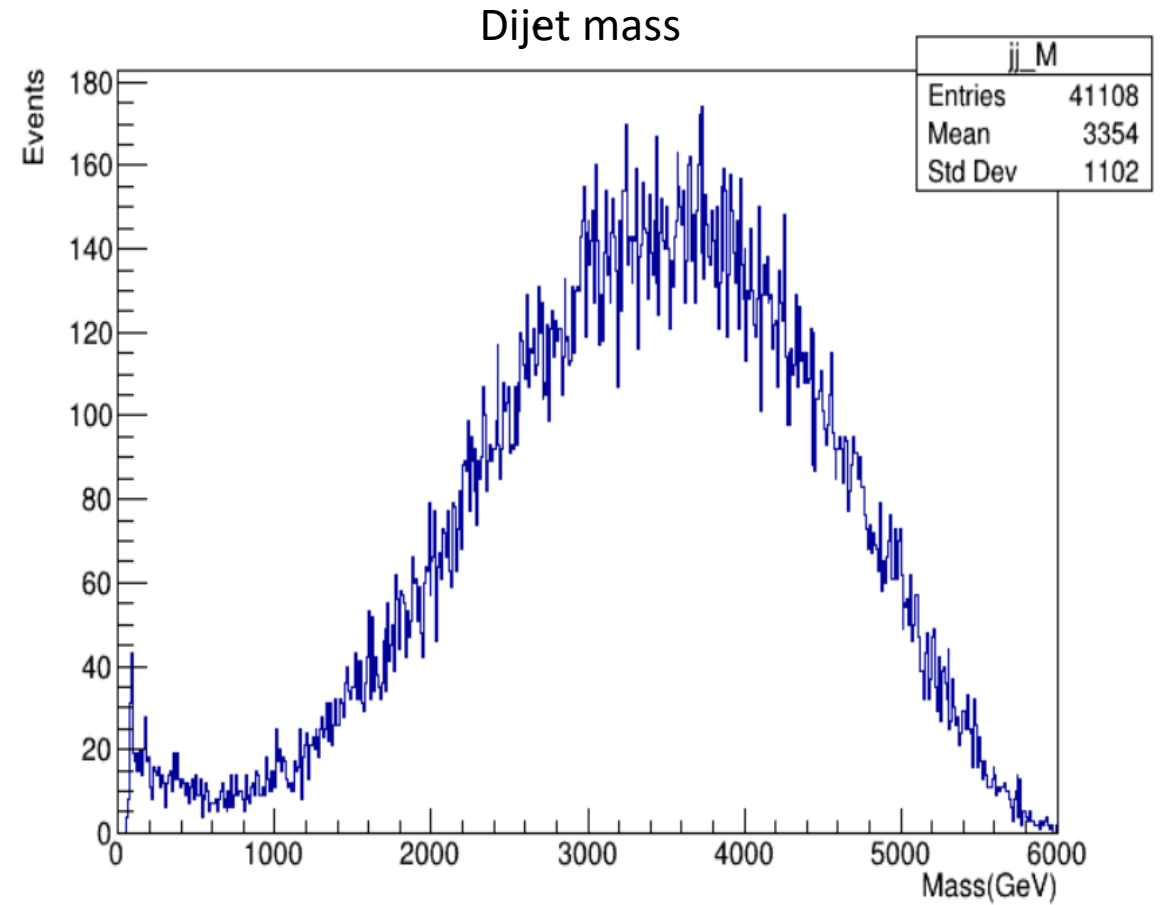
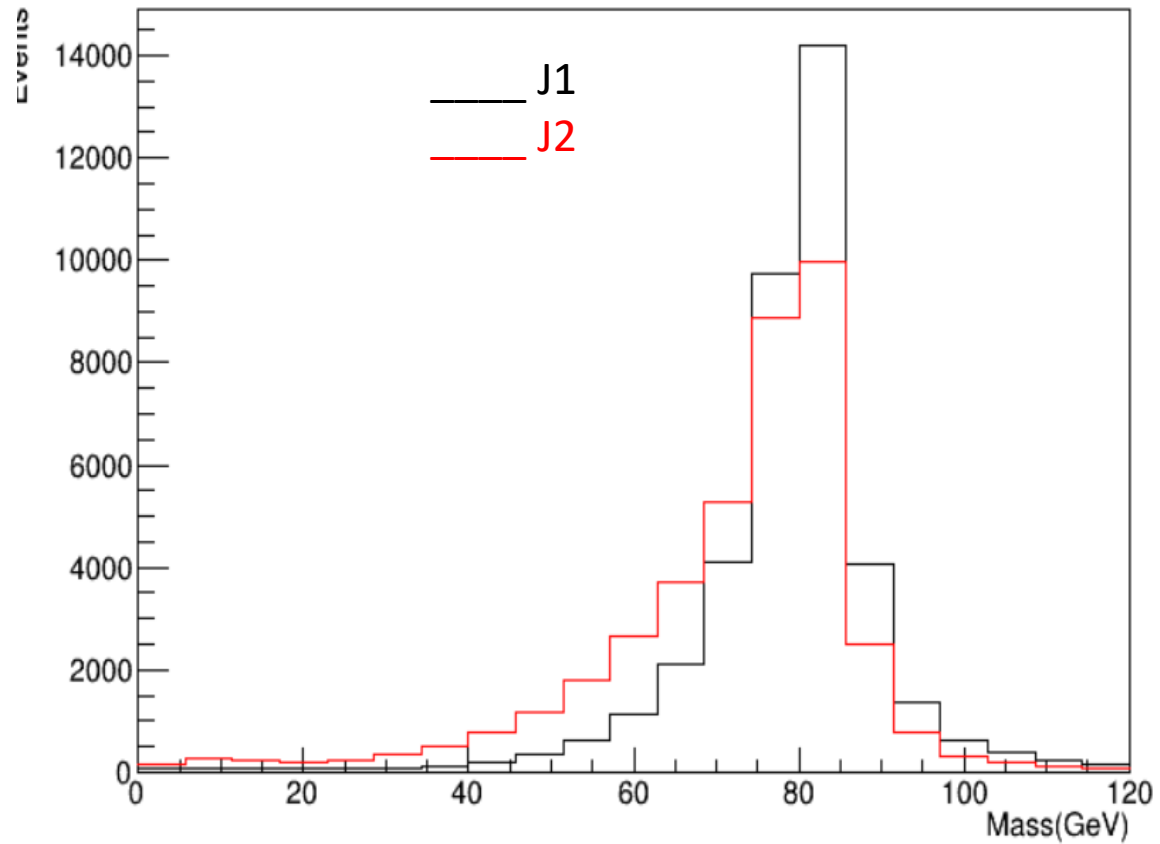
For $T1 = 1E-14$,
FULL(sm+int+quad) events

Dijet mass



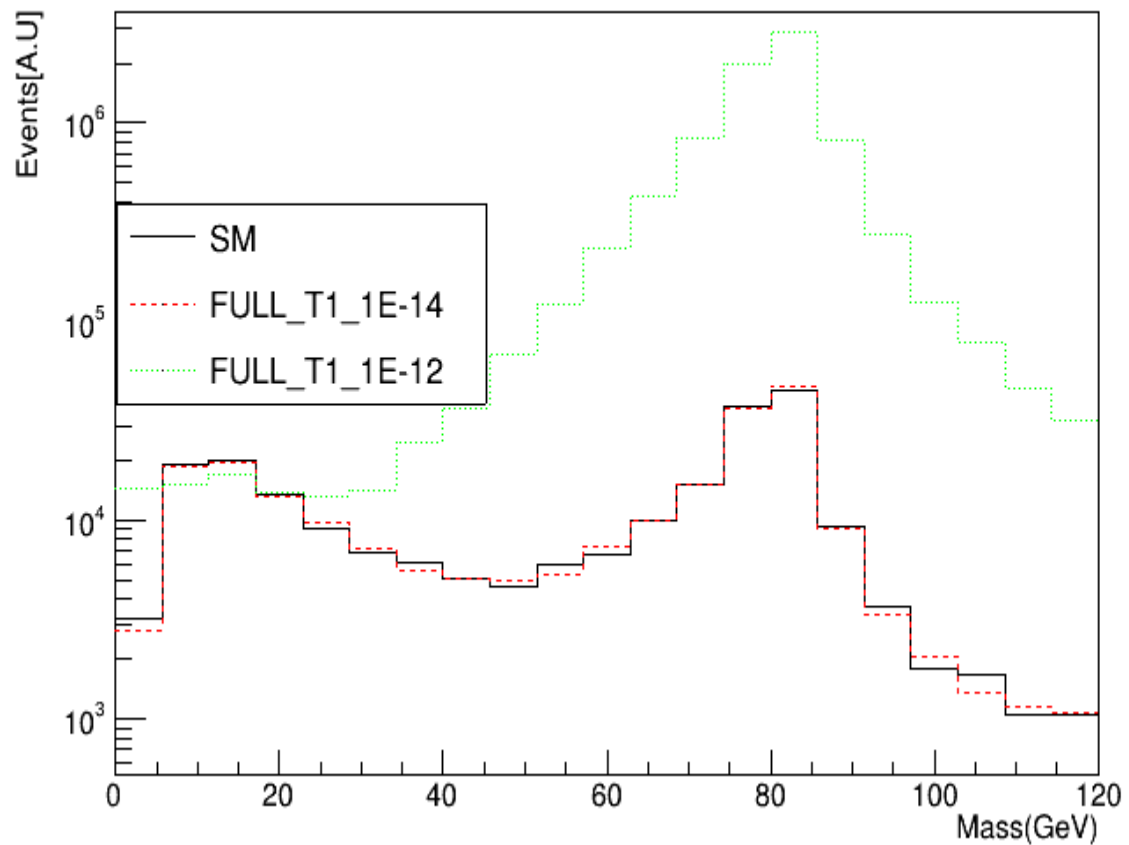
Using VLCR10_inclusive two leading jets,
 $|\text{quark } \eta| < 2.5$, $n_W=2$, $n_{\text{lep}}=0$ and $n_{\text{jets}} > 1$
%Events passing selection = 41.11

For $T1 = 1E-12$,
FULL(sm+int+quad) events

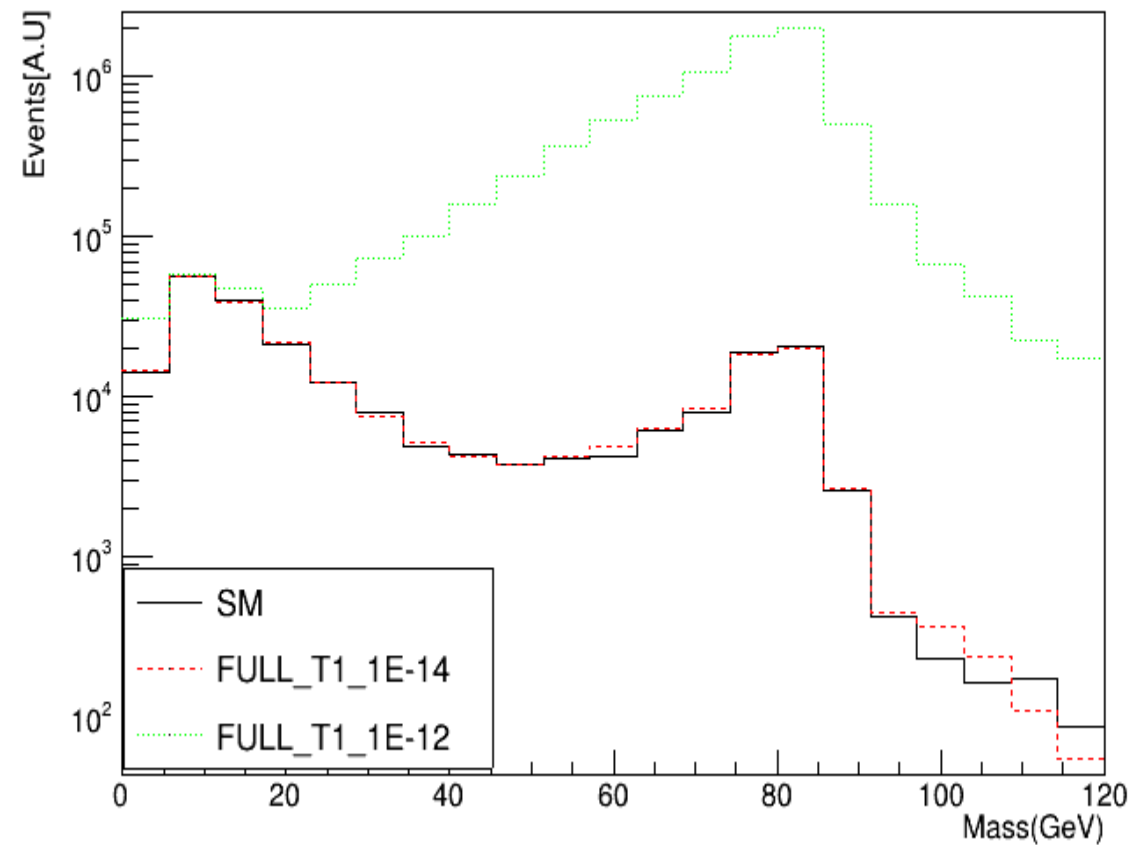


%EventSelection	T1 = 1E-12	T1 = 1E-14	SM
Before q cuts	54.76	42.82	42.67
After q cuts	41.11	21.3	21.46

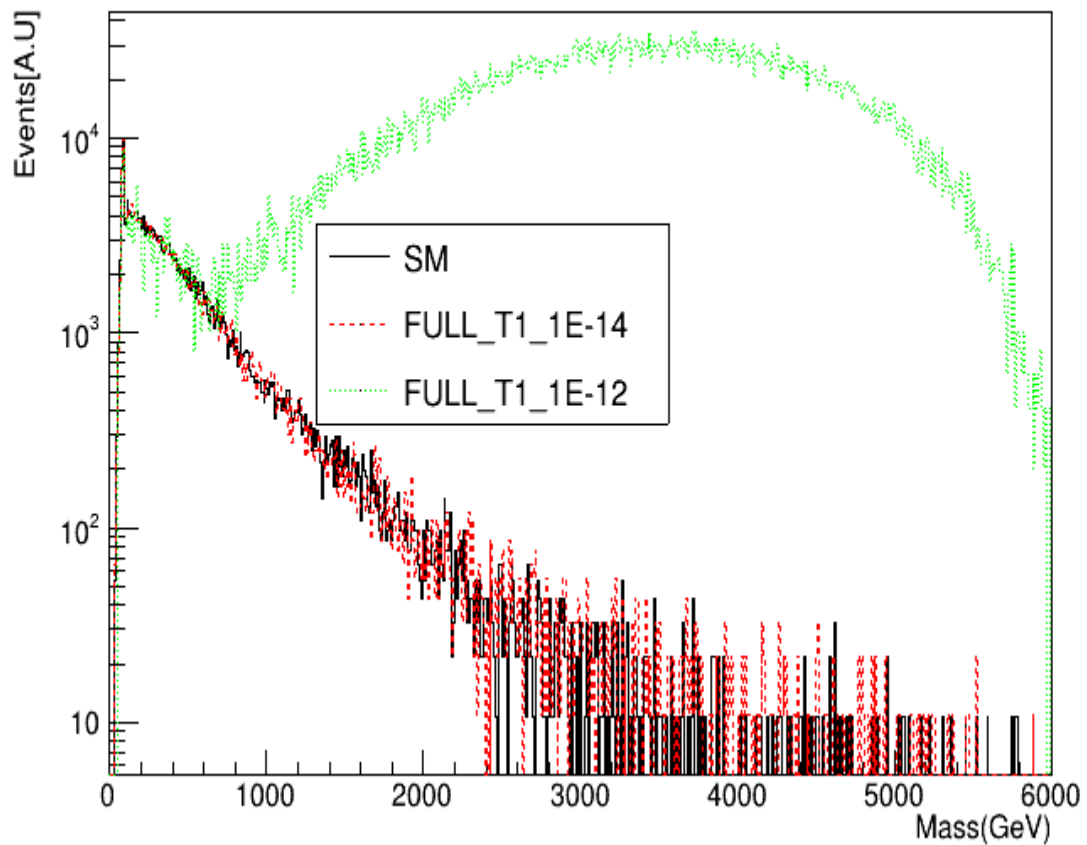
J1 Mass



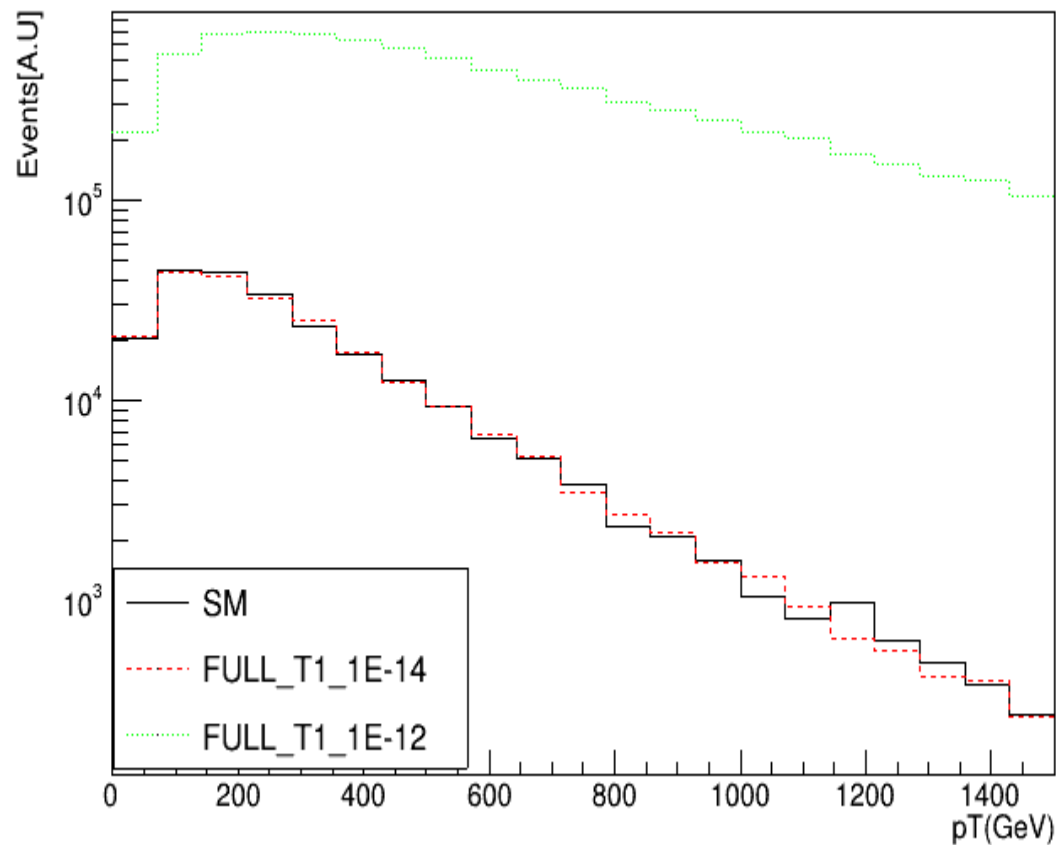
J2 Mass



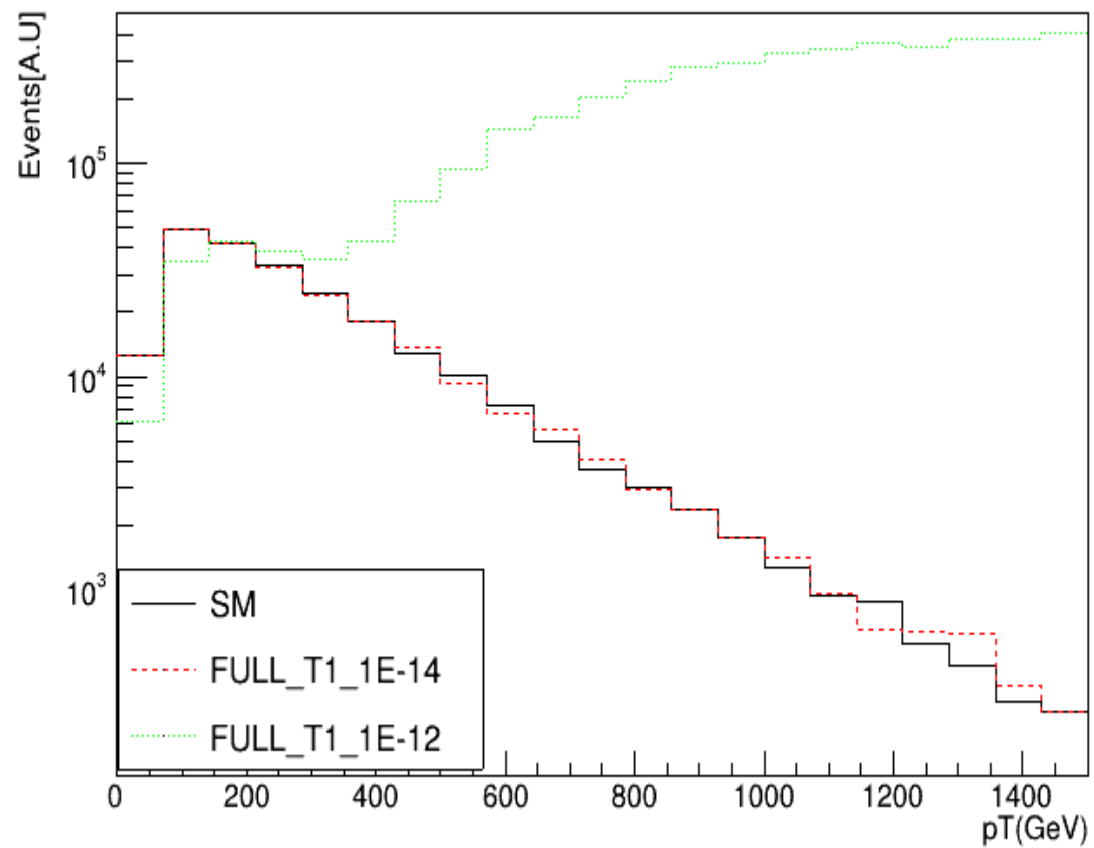
Dijet Mass



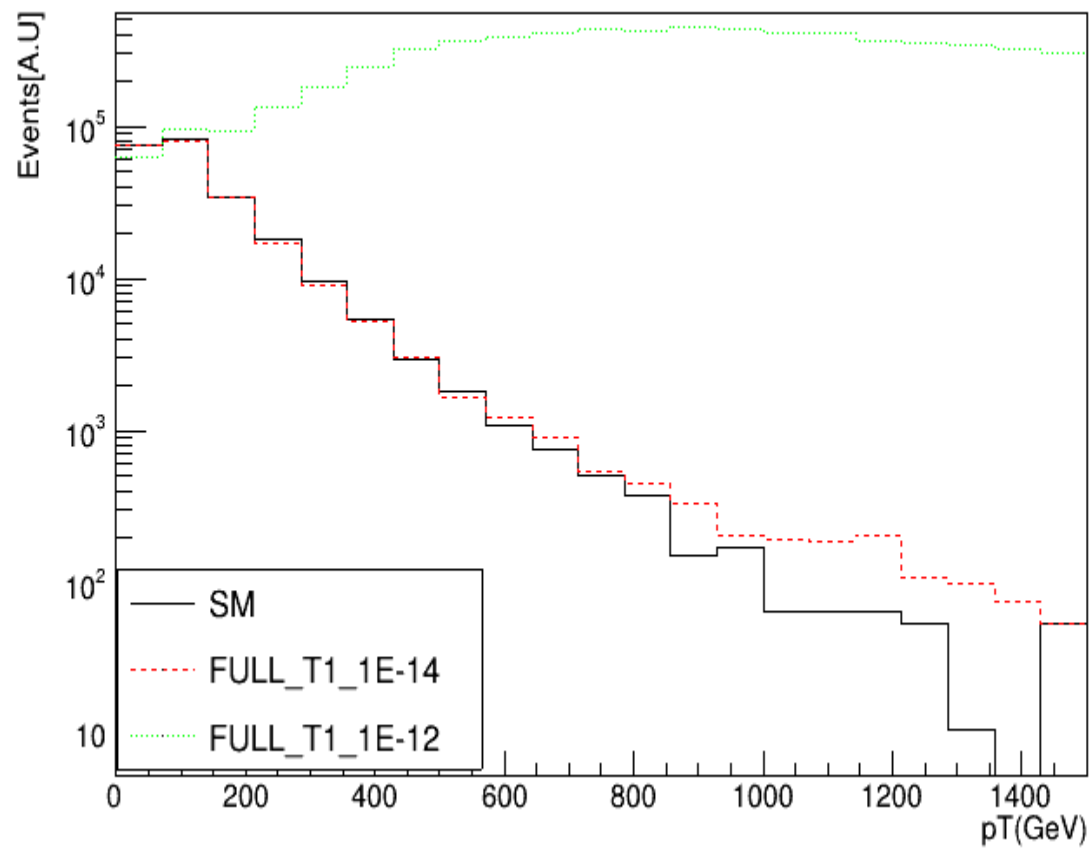
Dijet pT



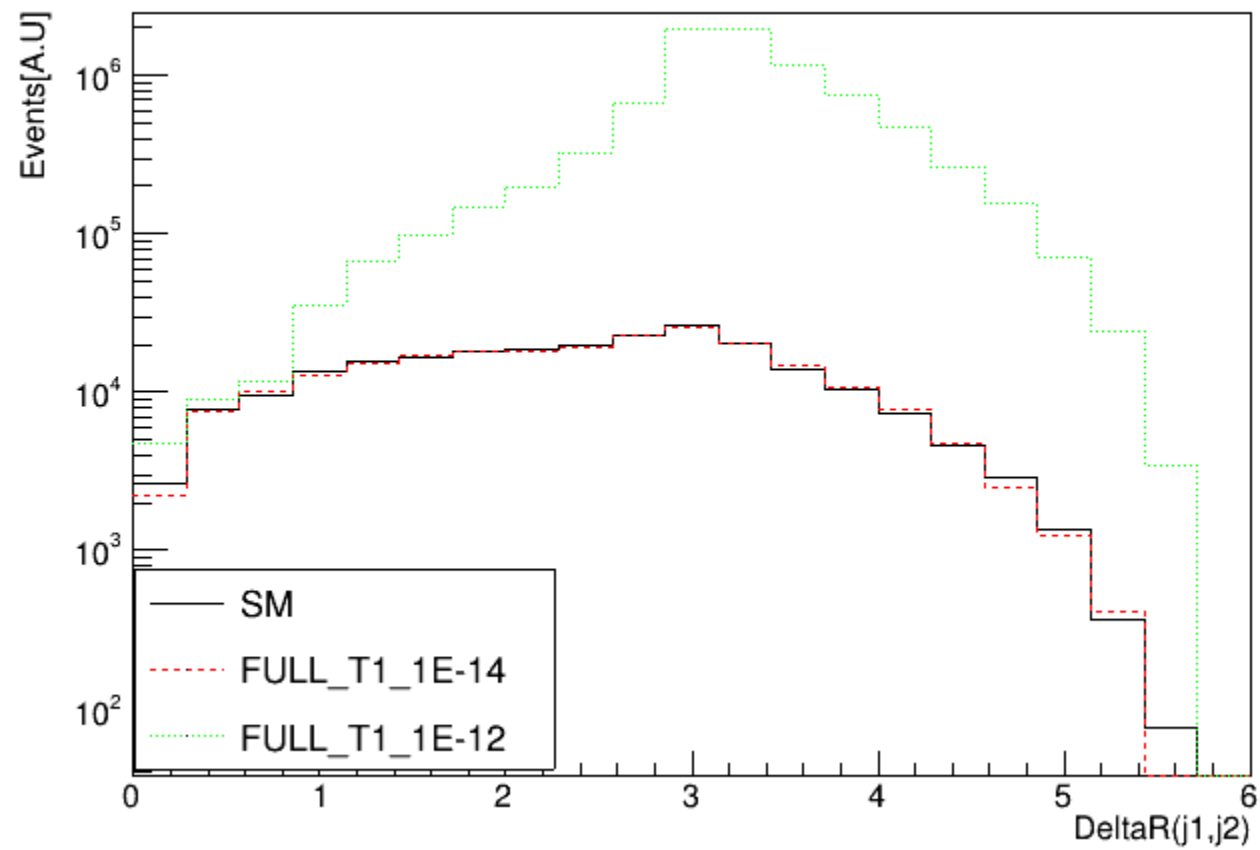
J1 pT



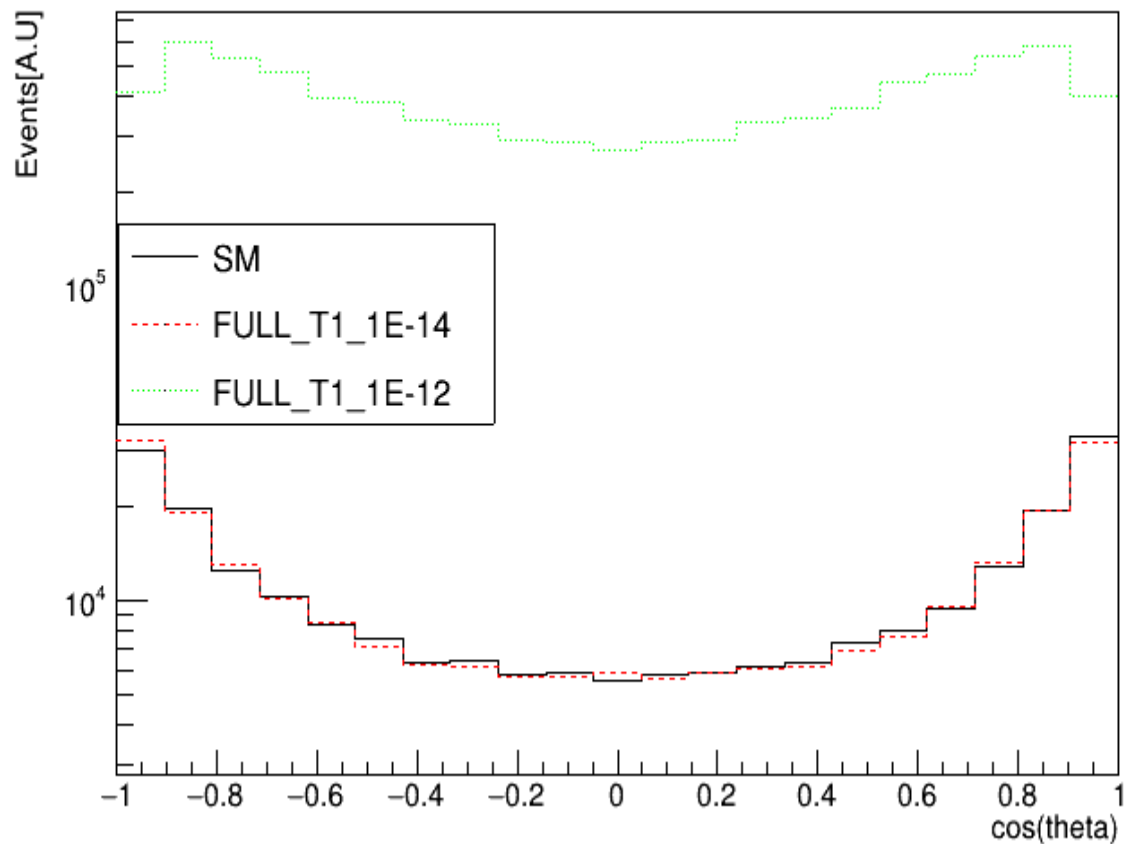
J2 pT



jj dR



J1 cos(theta)



J2 cos(theta)

