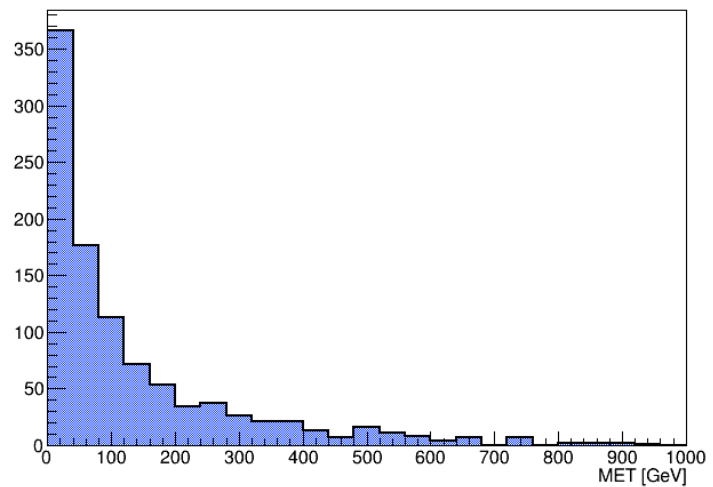


DELPHES Monophoton Studies

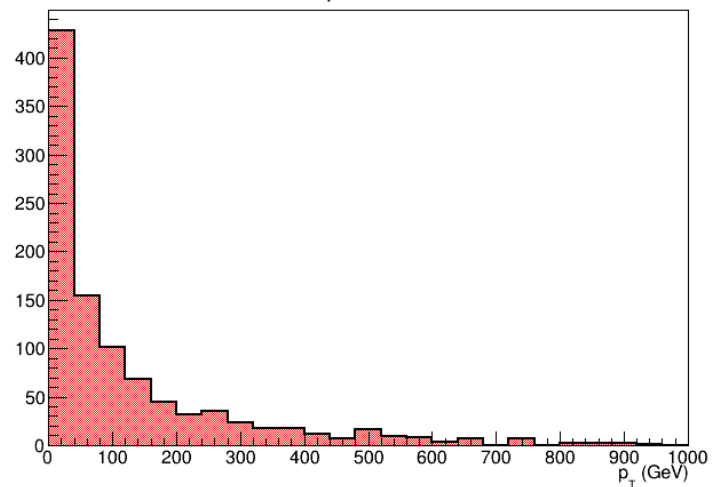
Nikhilesh Subramanian

Signal

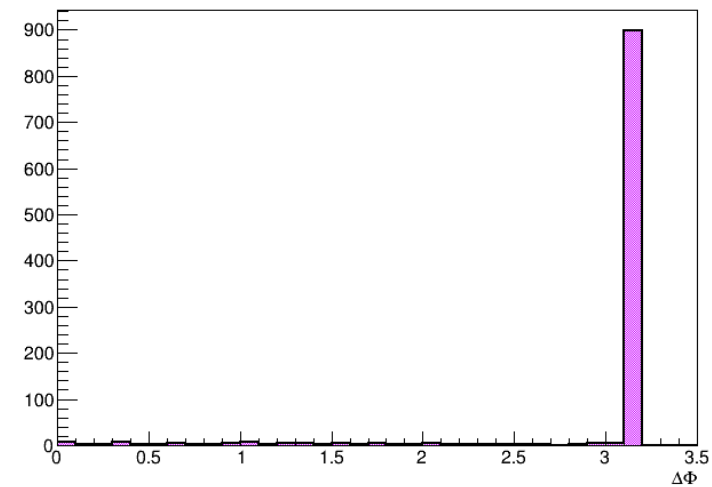
MET for $\sqrt{s} = 3$ TeV



Photon p_T for $\sqrt{s} = 3$ TeV



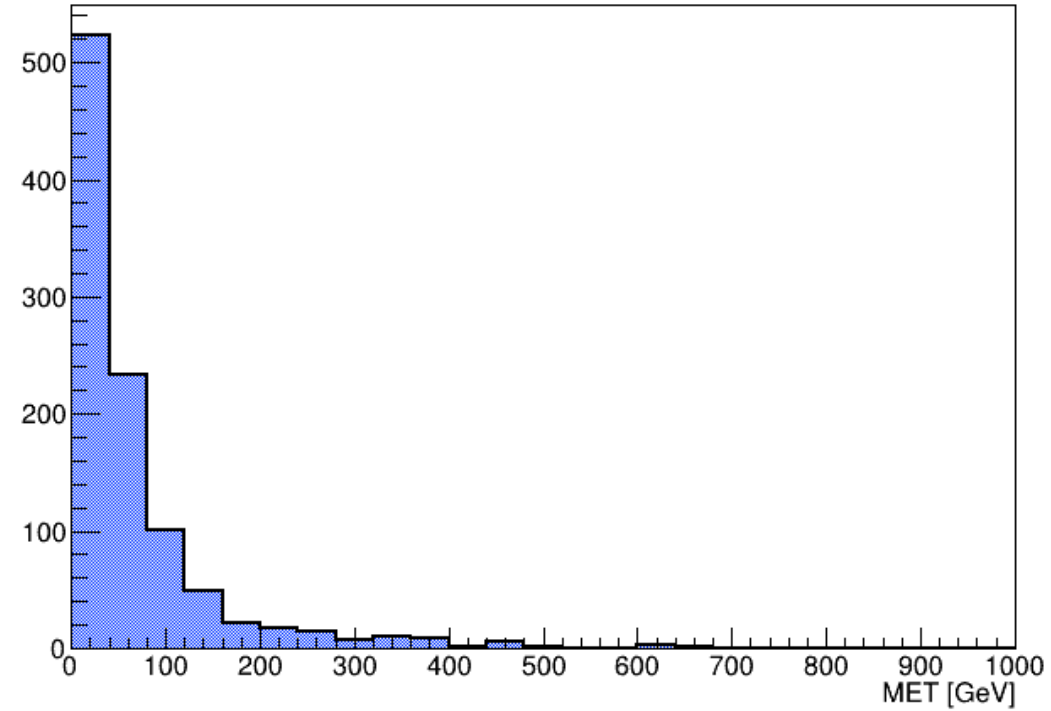
$\Delta\Phi$ between MET and Photon at $\sqrt{s} = 3$ TeV



- $\mu^+ \mu^- \rightarrow \text{chip1 chip1} \sim \gamma$
- Running 1000 Events at $\sqrt{s} = 3$ TeV

Background

bkg MET for $\sqrt{s} = 3 \text{ TeV}$



Major SM background: $\mu^+ \mu^- \rightarrow \nu \bar{\nu} \gamma$

Next Steps

- Combine signal and background with normalization
- Increase number of events
- Look at other variables and backgrounds
- Start running other signal processes