

Delphes Studies on Angles of Acceptance

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- 1 I performed an analysis of the distribution of p_T for jets resulting from $\mu^+\mu^- \rightarrow H\nu_\mu\bar{\nu}_\mu$ and $\mu^+\mu^- \rightarrow HH\nu_\mu\bar{\nu}_\mu$ processes
- 2 Each process was ran at 3, 5 and 10TeV, and H were forced to decay to $b\bar{b}$
- 3 On the card I was using for detector simulation there already was a cutoff for $p_T < 20\text{GeV}/c$, I have removed it and am rerunning simulations now.

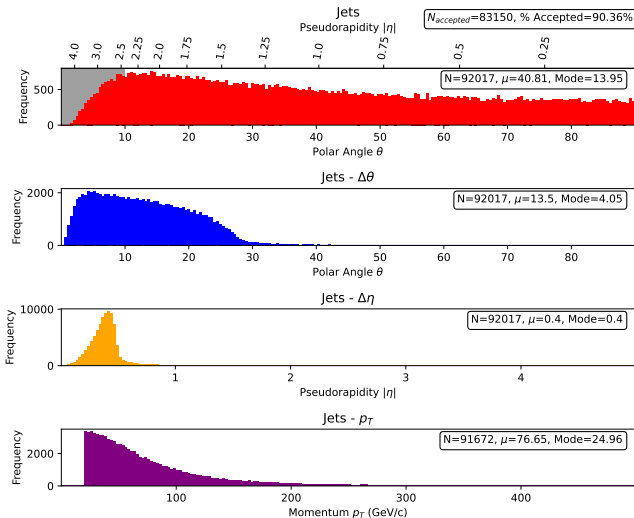


Figure: Process: $\mu^+\mu^- \rightarrow \nu_\mu\bar{\nu}_\mu H, H \rightarrow b\bar{b}$ at $\sqrt{s} = 3\text{TeV}$, $N_{\text{events}} = 50,000$

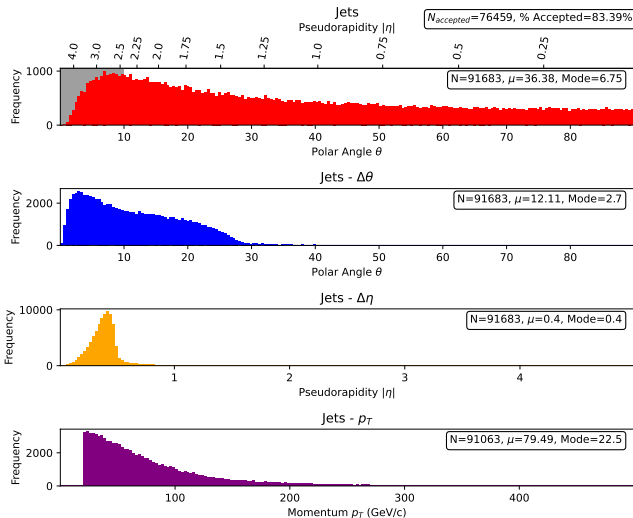


Figure: Process: $\mu^+\mu^- \rightarrow \nu_\mu \bar{\nu}_\mu H, H \rightarrow b\bar{b}$ at $\sqrt{s} = 5\text{TeV}$, $N_{\text{events}} = 50,000$

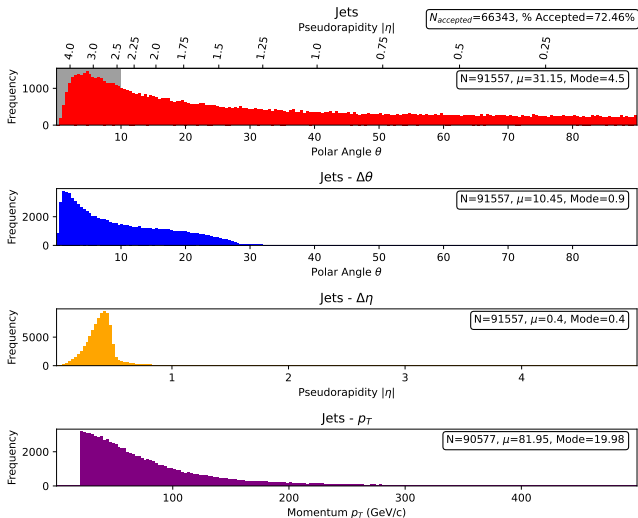


Figure: Process: $\mu^+\mu^- \rightarrow \nu_\mu \bar{\nu}_\mu H, H \rightarrow b\bar{b}$ at $\sqrt{s} = 10\text{TeV}$, $N_{\text{events}} = 50,000$

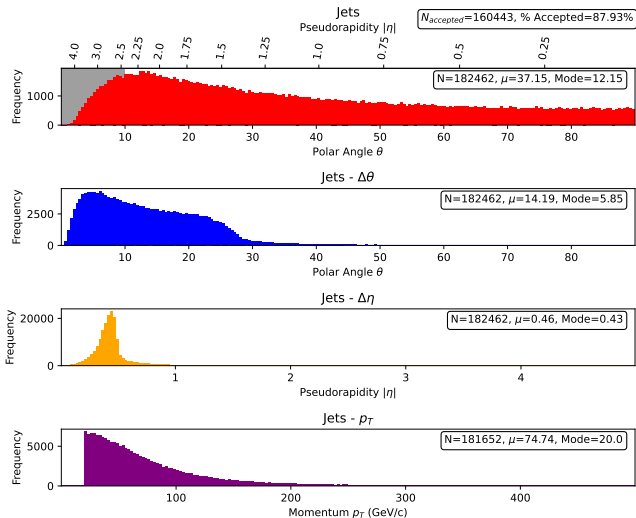


Figure: Process: $\mu^+\mu^- \rightarrow \nu_\mu \bar{\nu}_\mu HH, H \rightarrow b\bar{b}$ at $\sqrt{s} = 3\text{TeV}$, $N_{\text{events}} = 50,000$

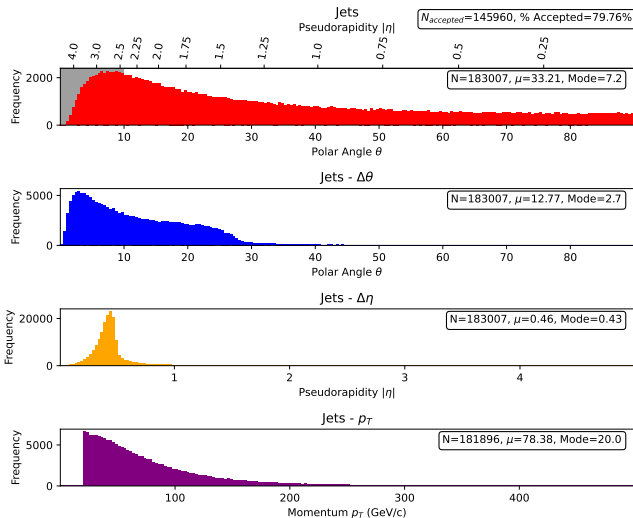


Figure: Process: $\mu^+\mu^- \rightarrow \nu_\mu \bar{\nu}_\mu HH, H \rightarrow b\bar{b}$ at $\sqrt{s} = 5\text{TeV}$, $N_{\text{events}} = 50,000$

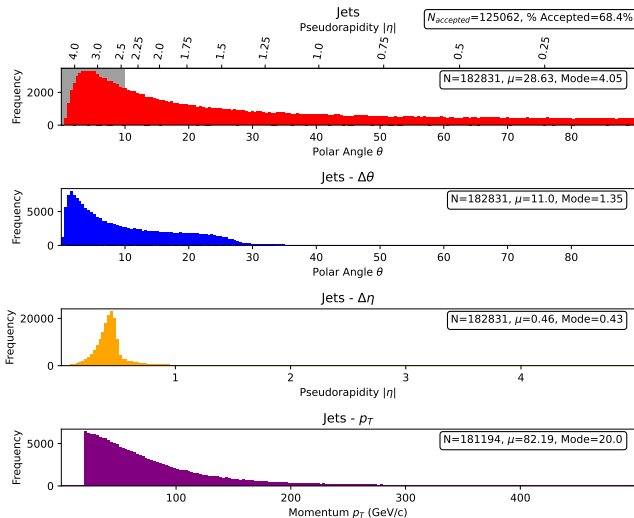


Figure: Process: $\mu^+\mu^- \rightarrow \nu_\mu\bar{\nu}_\mu HH, H \rightarrow b\bar{b}$ at $\sqrt{s} = 10\text{TeV}$, $N_{\text{events}} = 50,000$