

# Summary

- Added the discussed plots
- Btag requirement (threshold on next slide)
- Used same method as before to generate plots for all jet multiplicities (e.g., scaled MC to data plot-by-plot to compare shapes  $\rightarrow$  scale factor  $S$ )
- When looking at quantities for events with  $N_{\text{Jets}} \geq 2$ , I used the scale factor  $S$  calculated in the absence of the  $N_{\text{Jets}}$  cut. Otherwise, the excess in data relative to MC would subside if I rescaled these particular events.
- Shape of  $M_T$  distribution not quite correct due to *eemu* and *mumumu* events (latter slides)

Plot links:

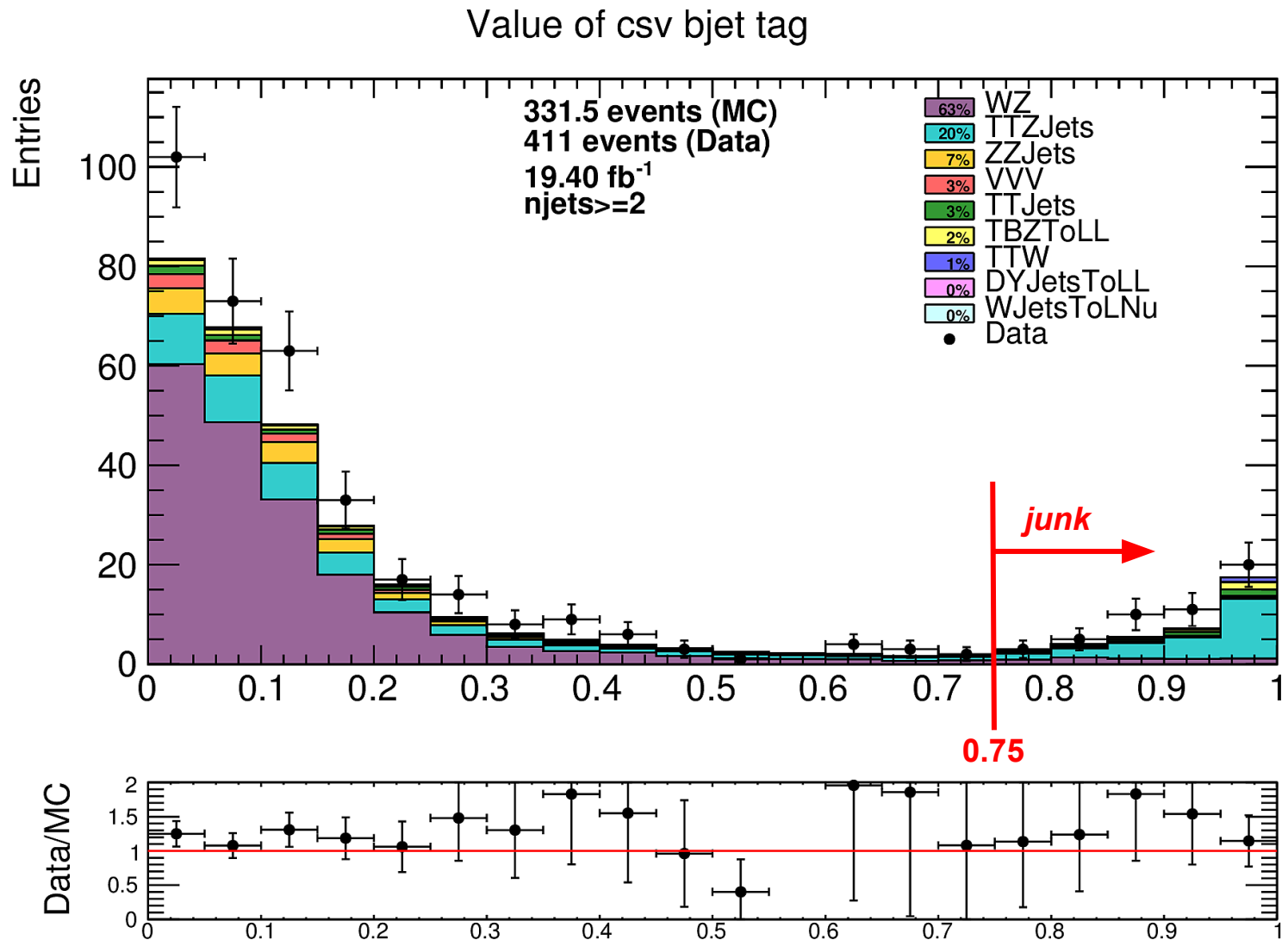
[http://web.physics.ucsb.edu/~namin/dump/plots\\_NJALLBTALL/](http://web.physics.ucsb.edu/~namin/dump/plots_NJALLBTALL/) (all njets, no bcut)

[http://web.physics.ucsb.edu/~namin/dump/plots\\_NJALLBT1/](http://web.physics.ucsb.edu/~namin/dump/plots_NJALLBT1/)

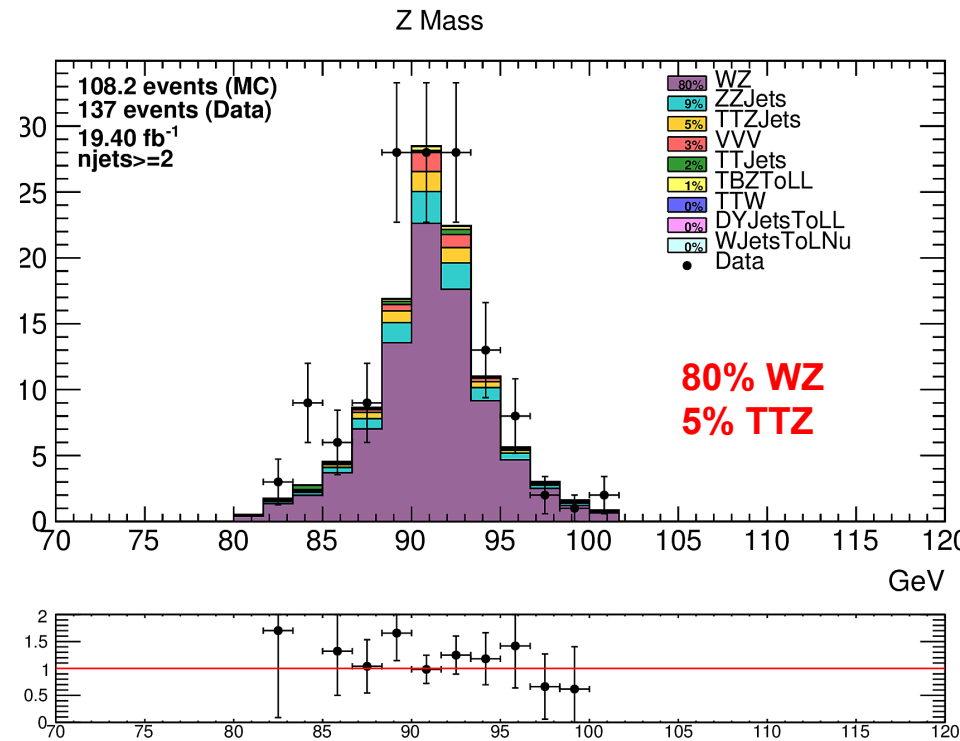
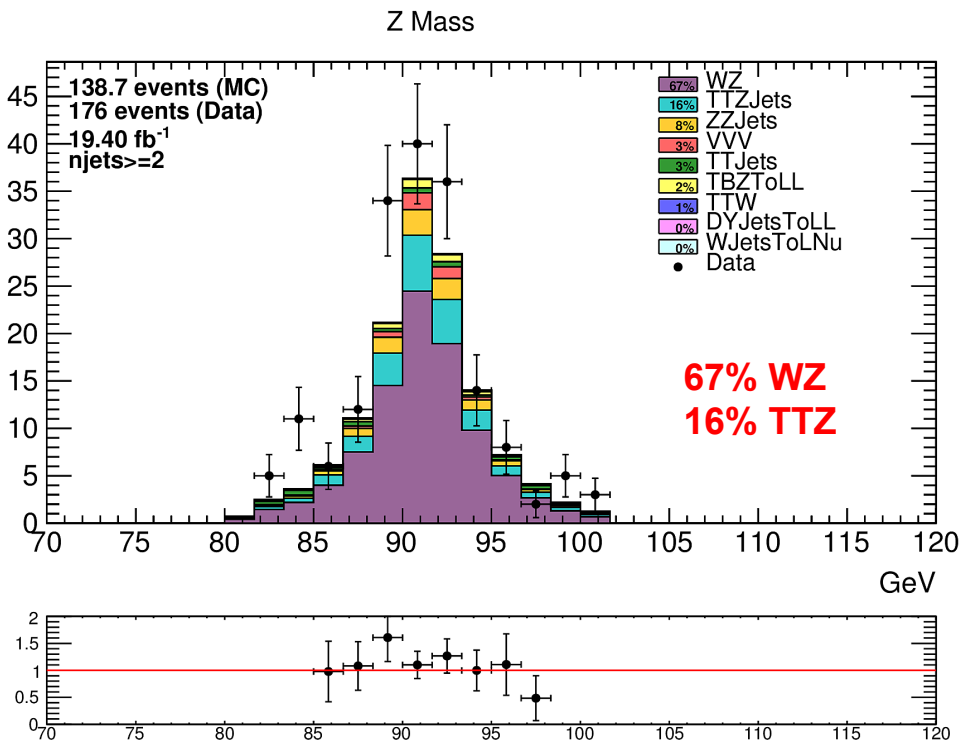
[http://web.physics.ucsb.edu/~namin/dump/plots\\_NJ2BTALL/](http://web.physics.ucsb.edu/~namin/dump/plots_NJ2BTALL/)

[http://web.physics.ucsb.edu/~namin/dump/plots\\_NJ2BT1/](http://web.physics.ucsb.edu/~namin/dump/plots_NJ2BT1/) (njets $\geq$ 2; skip if nbjets $\geq$ 1)

# Btag



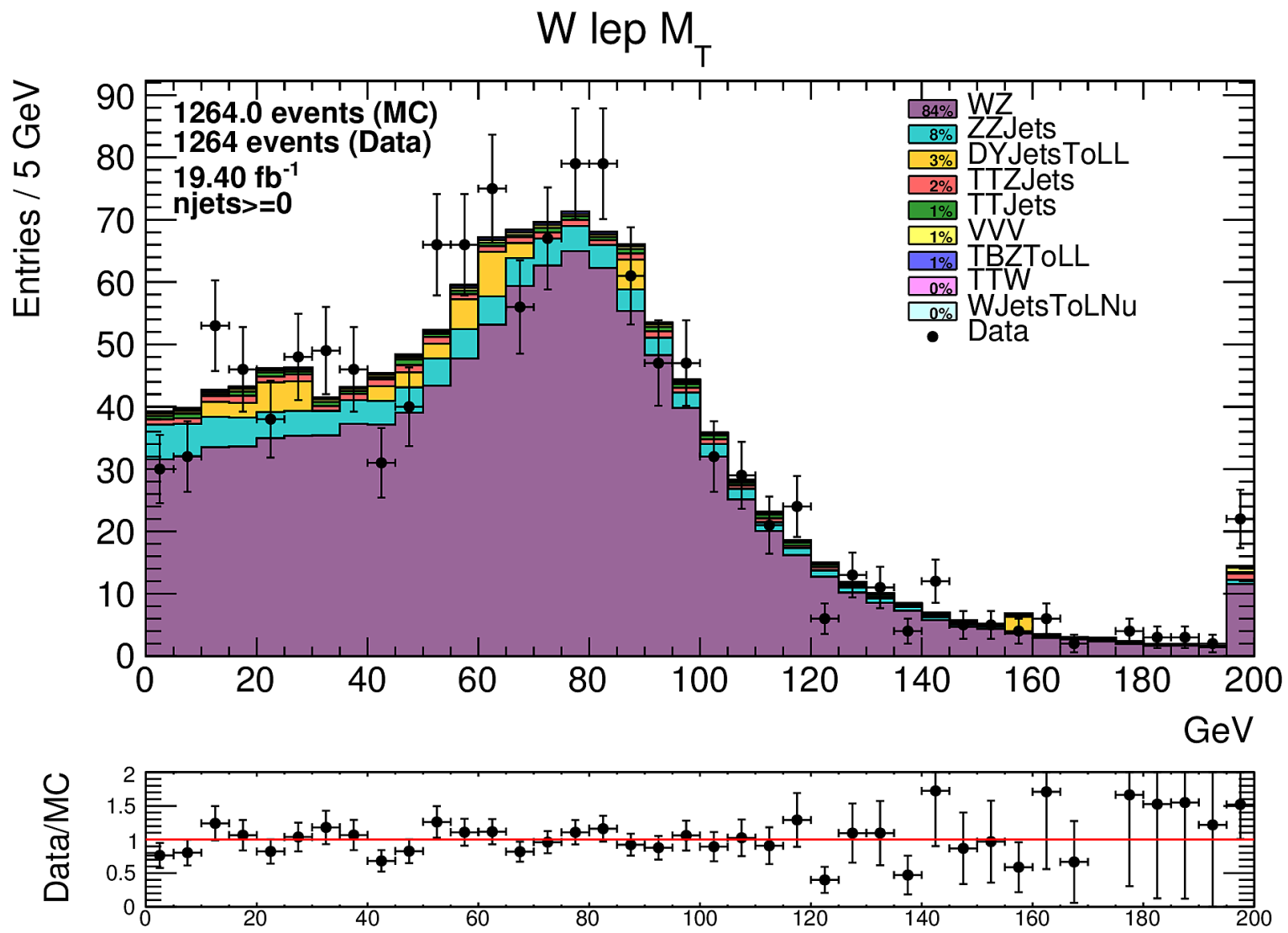
# Btag



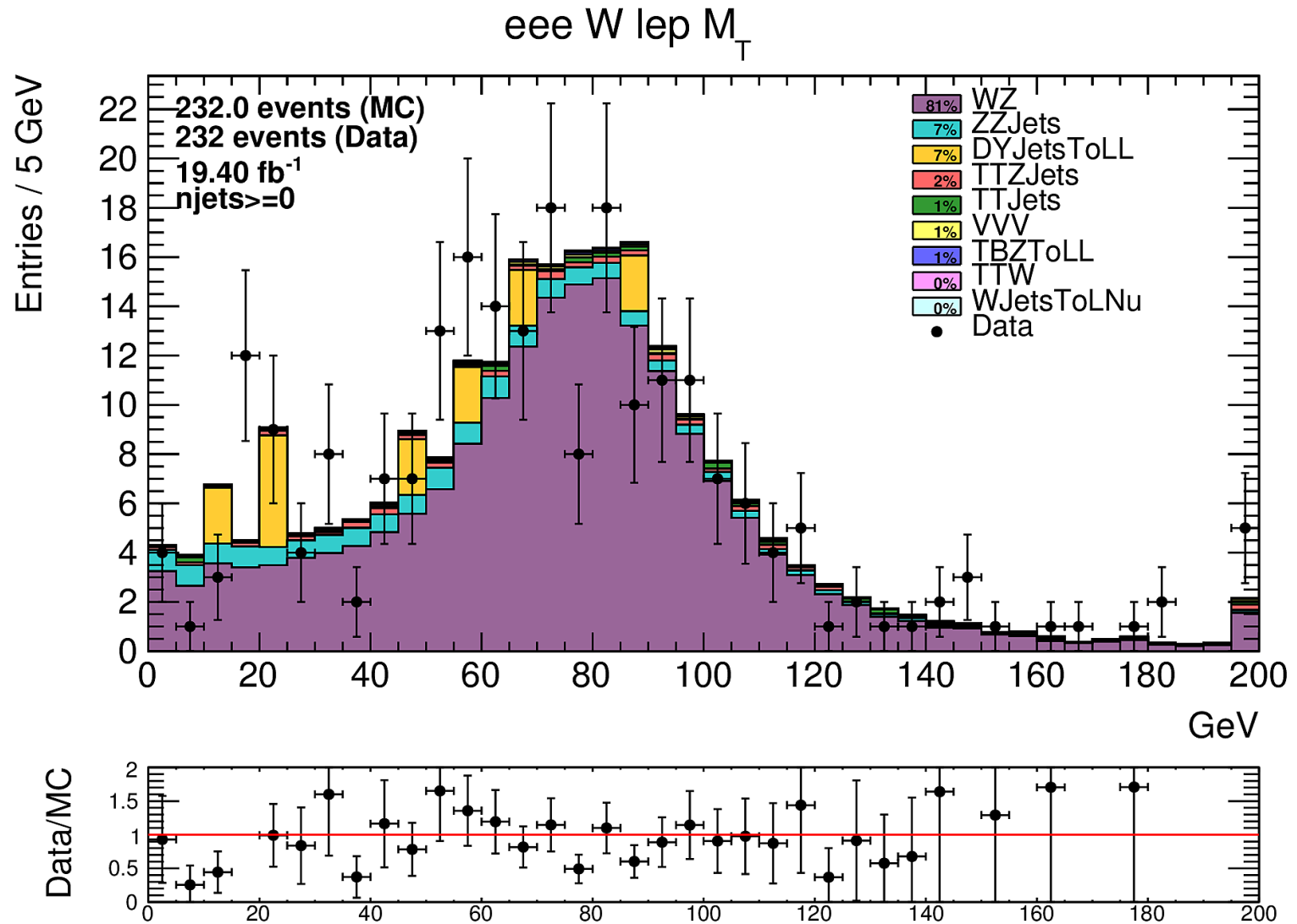
Veto event if  
#bjets ≥ 1



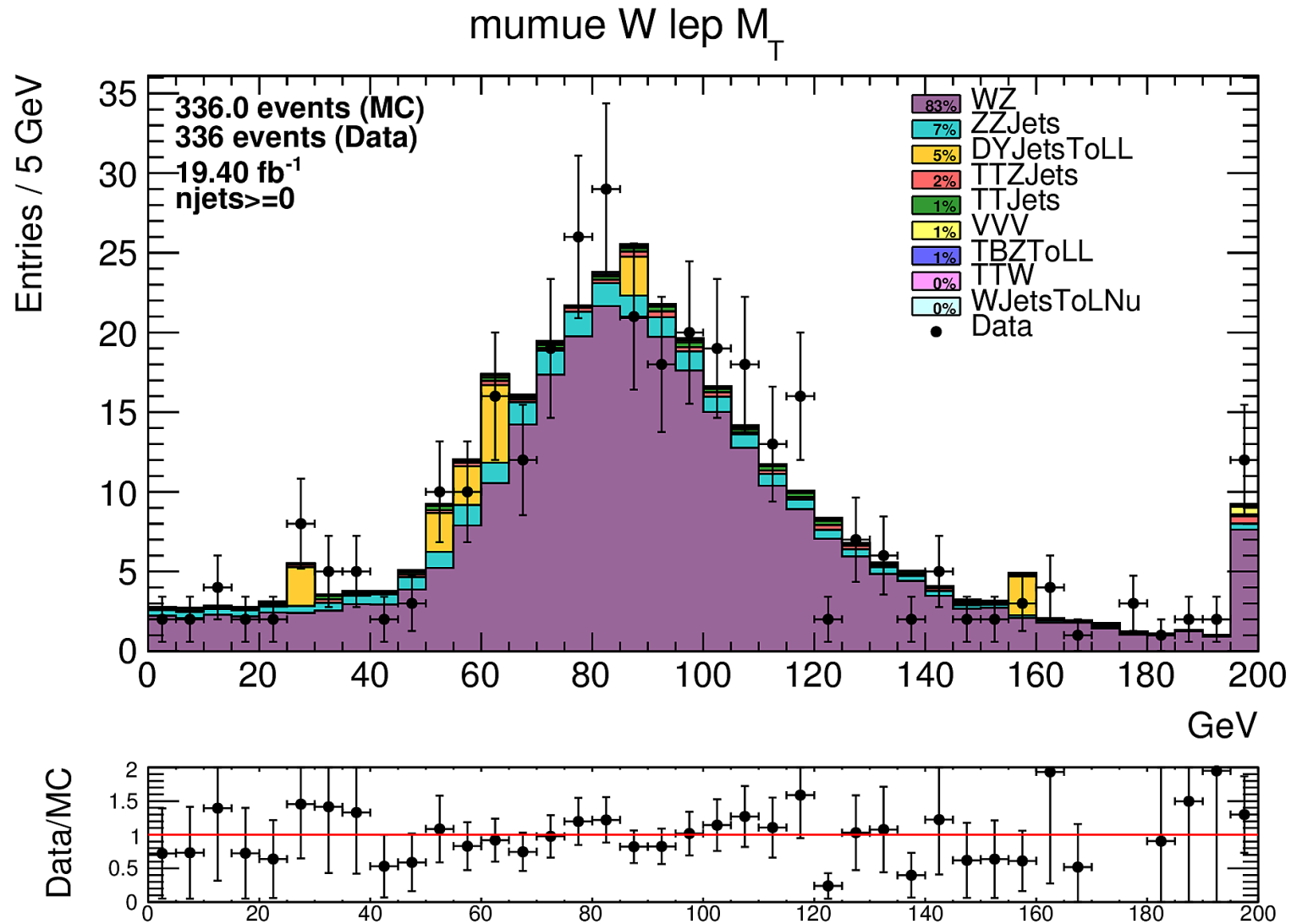
# M<sub>T</sub>



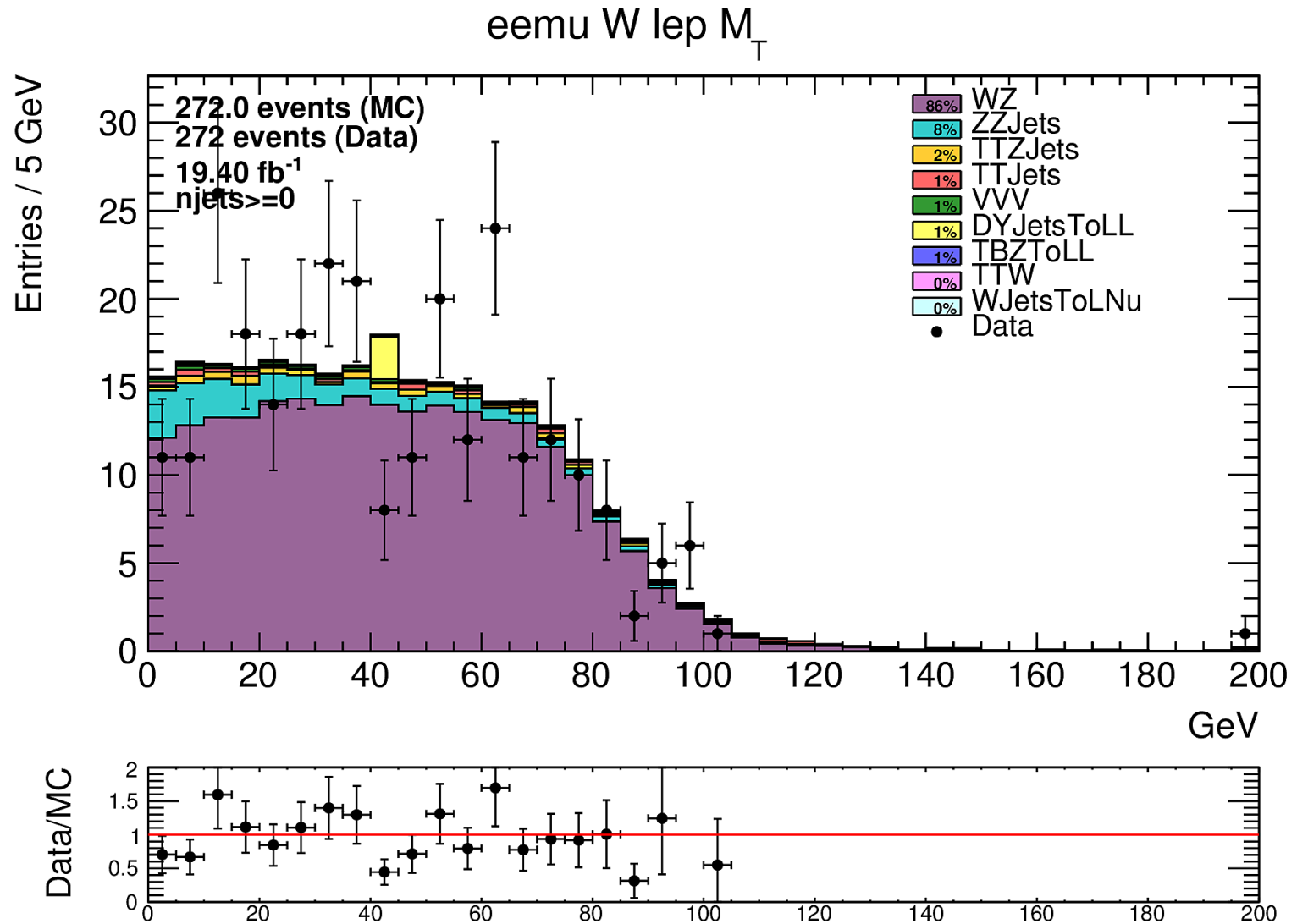
# $M_T$ ee only



# $M_T \mu\mu e$ only



# $M_T$ ee $\mu$ only



# $M_T \mu\mu\mu$ only

