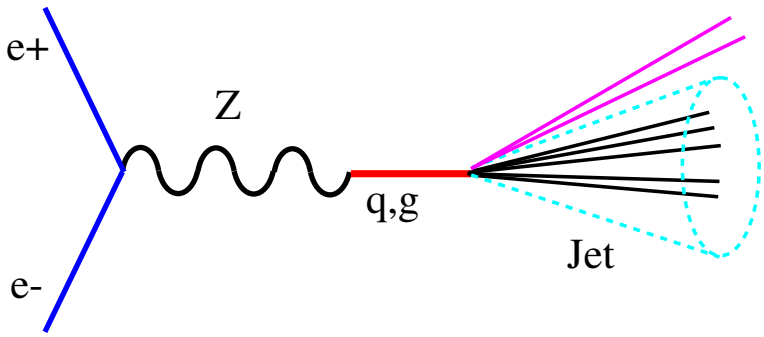
Top Mass (cont.):

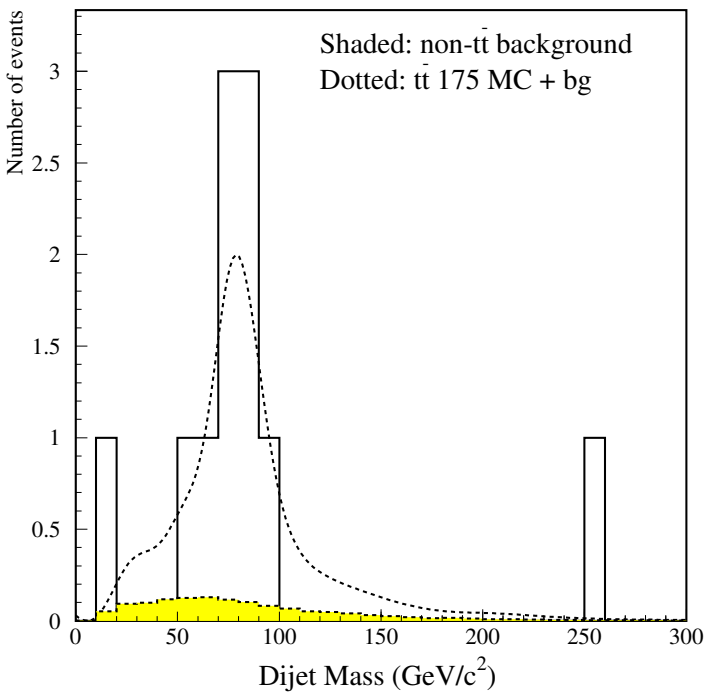
Data Samples can help understand these systematic Effects:

Z + Jets:



- Expect 27K (70) events of Z+1 (4) Jets
- Help understand the effects of fragmentation

$W \rightarrow q\bar{q}$ (in $t\bar{t}$ events):

- This represents an *in situ* calibration of the energy scale.
- This potentially allows a determination of the energy scale to 1-2%

CDF Preliminary