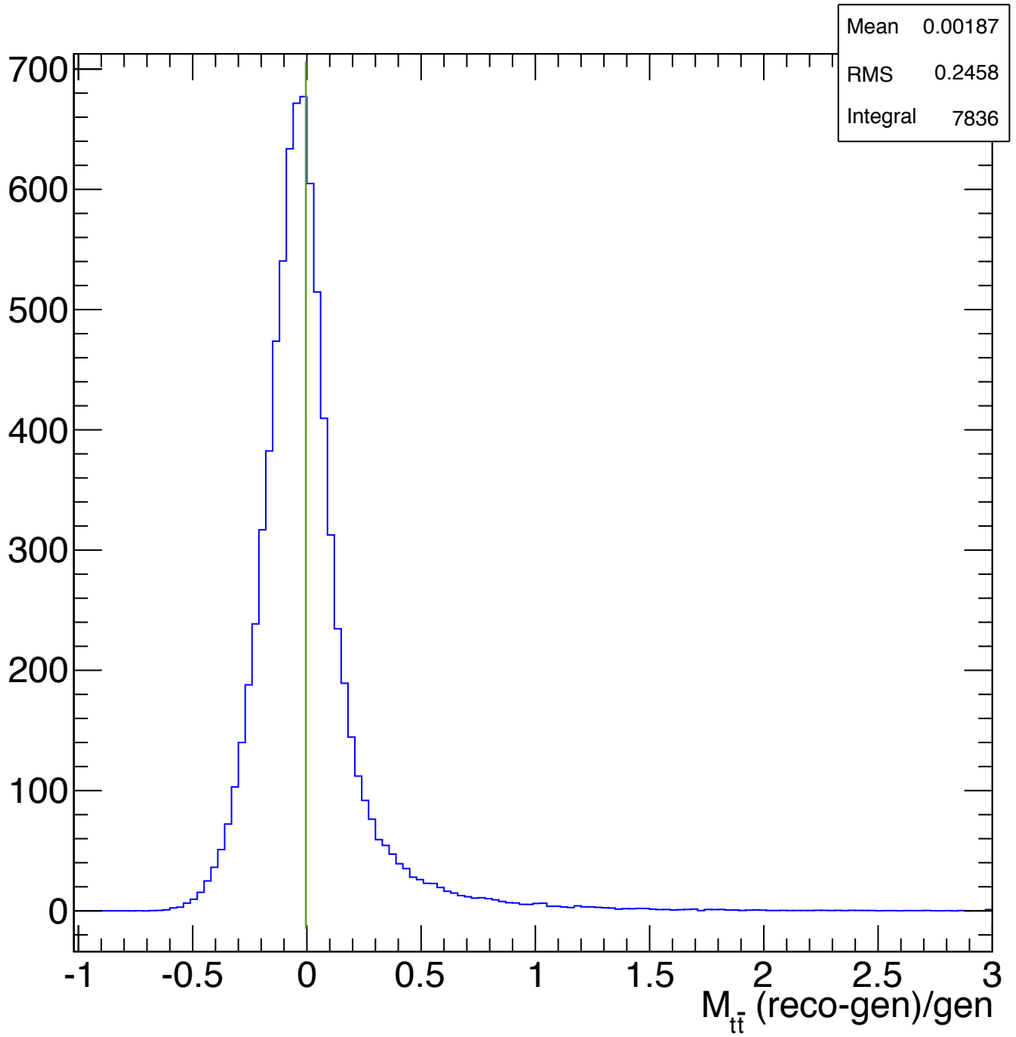
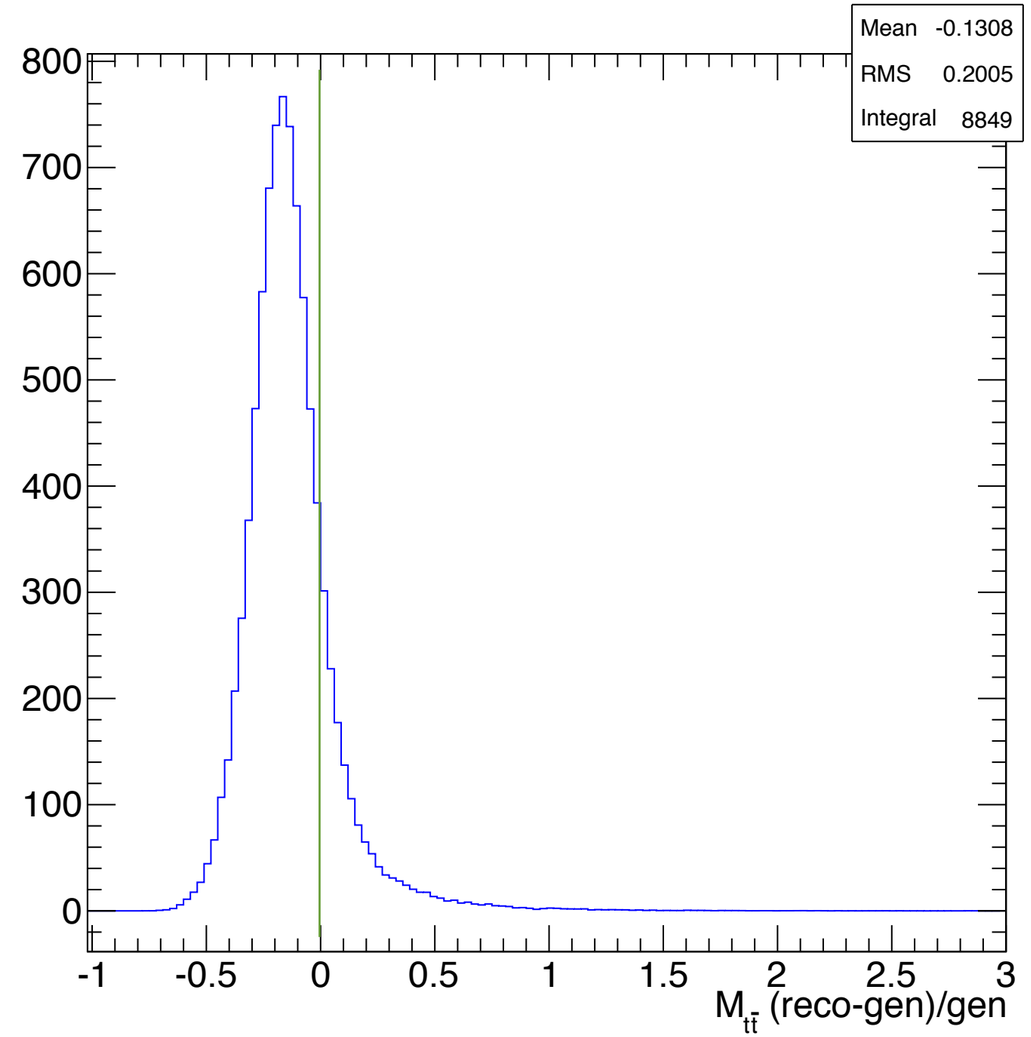
Reducing jet smearing bias by constraining solution to use values obtained from sum over smearing iterations

Original results (using single solution with highest weight from all possible solutions)

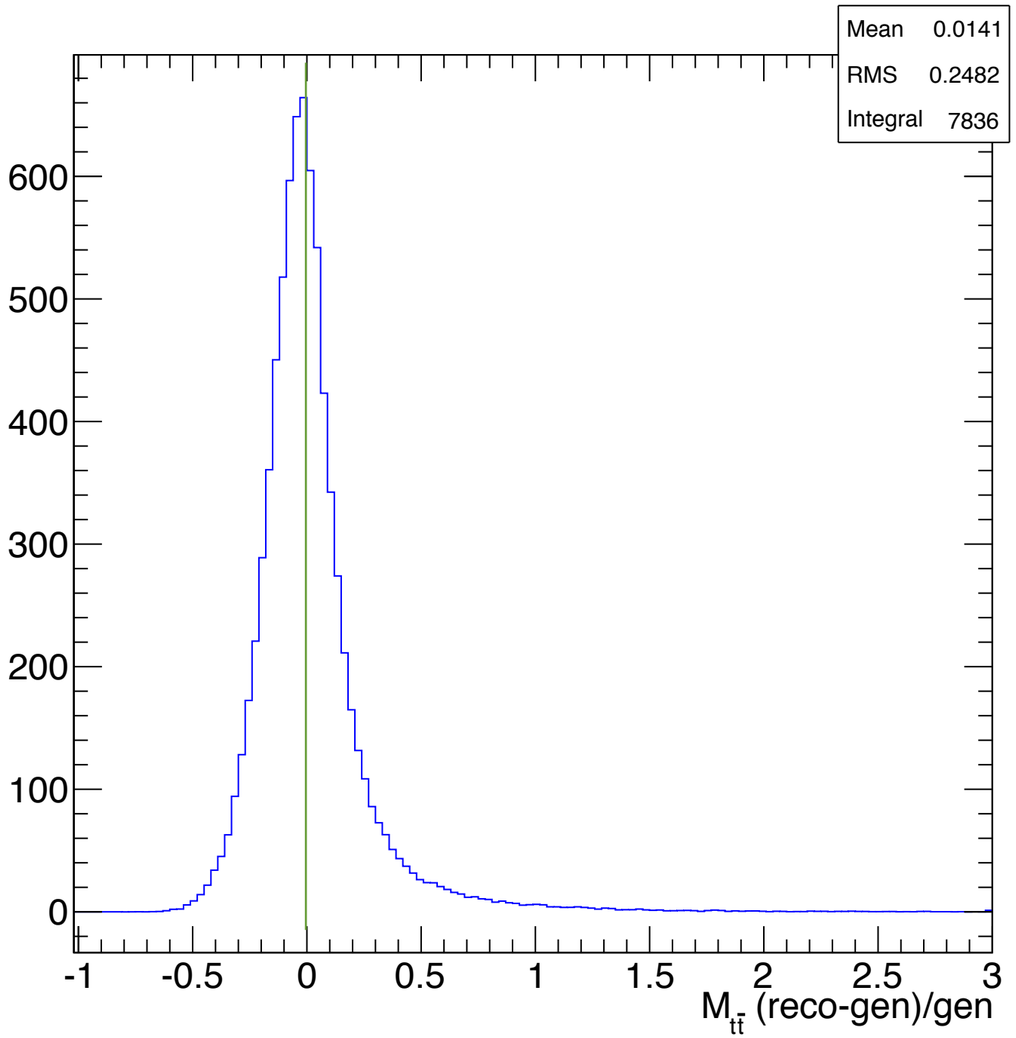


No jet smearing

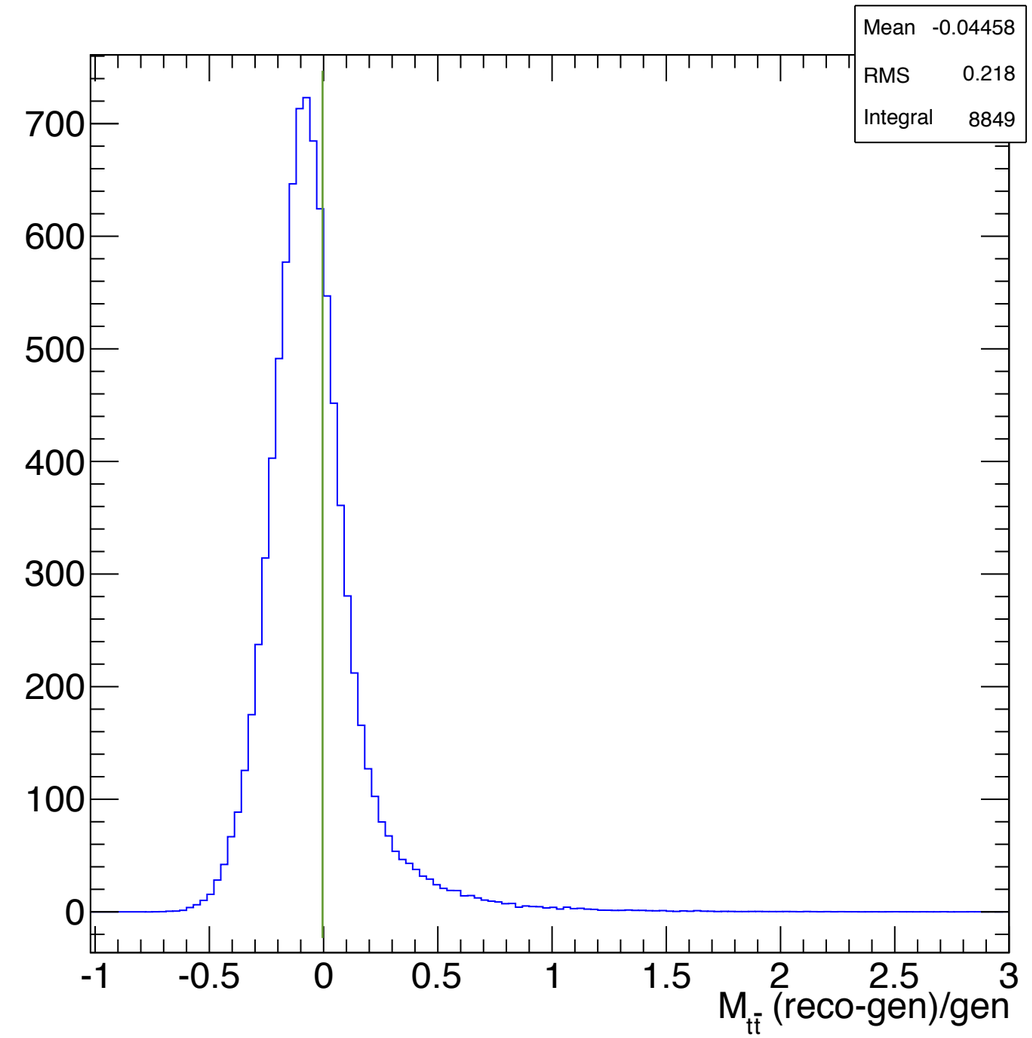


With jet smearing

Now constrain $M_{top} = M_{top}^{MaxSumWeights}$

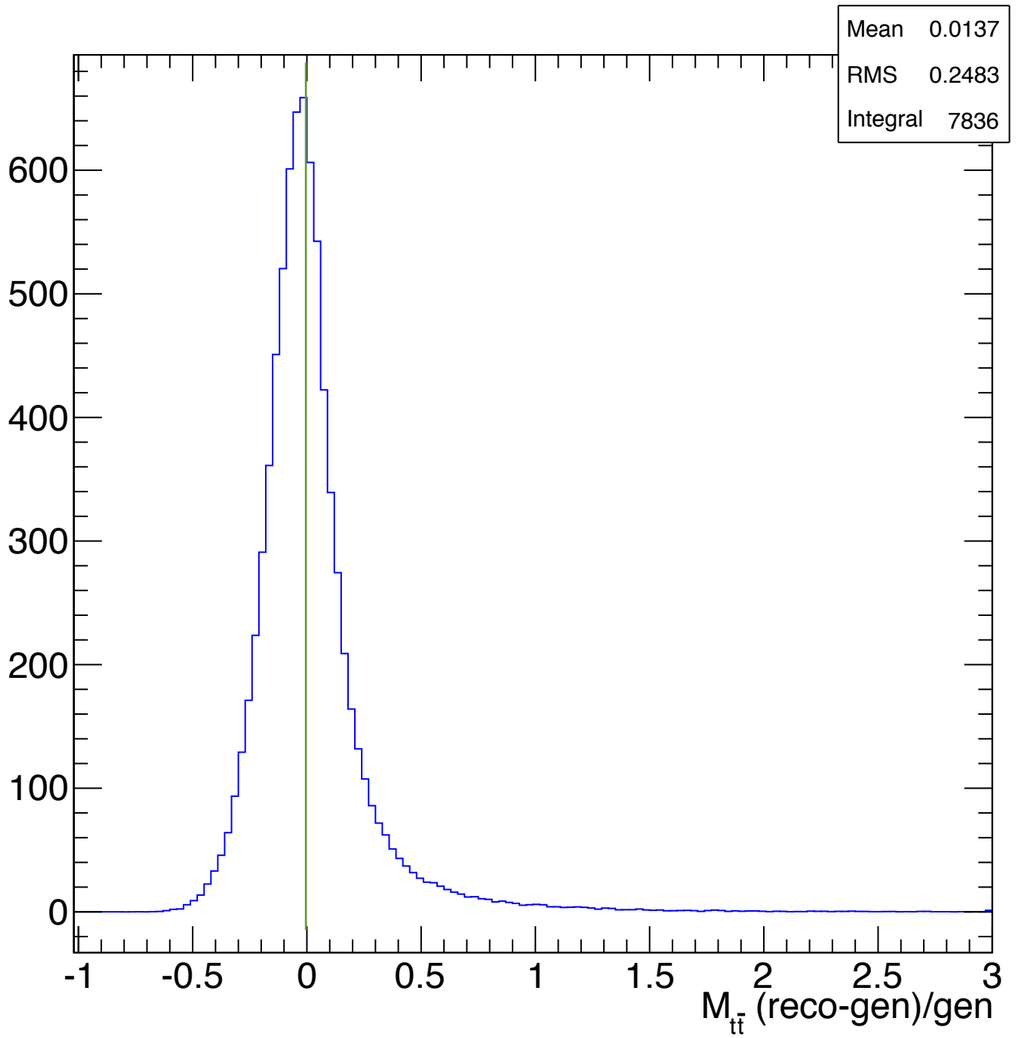


No jet smearing

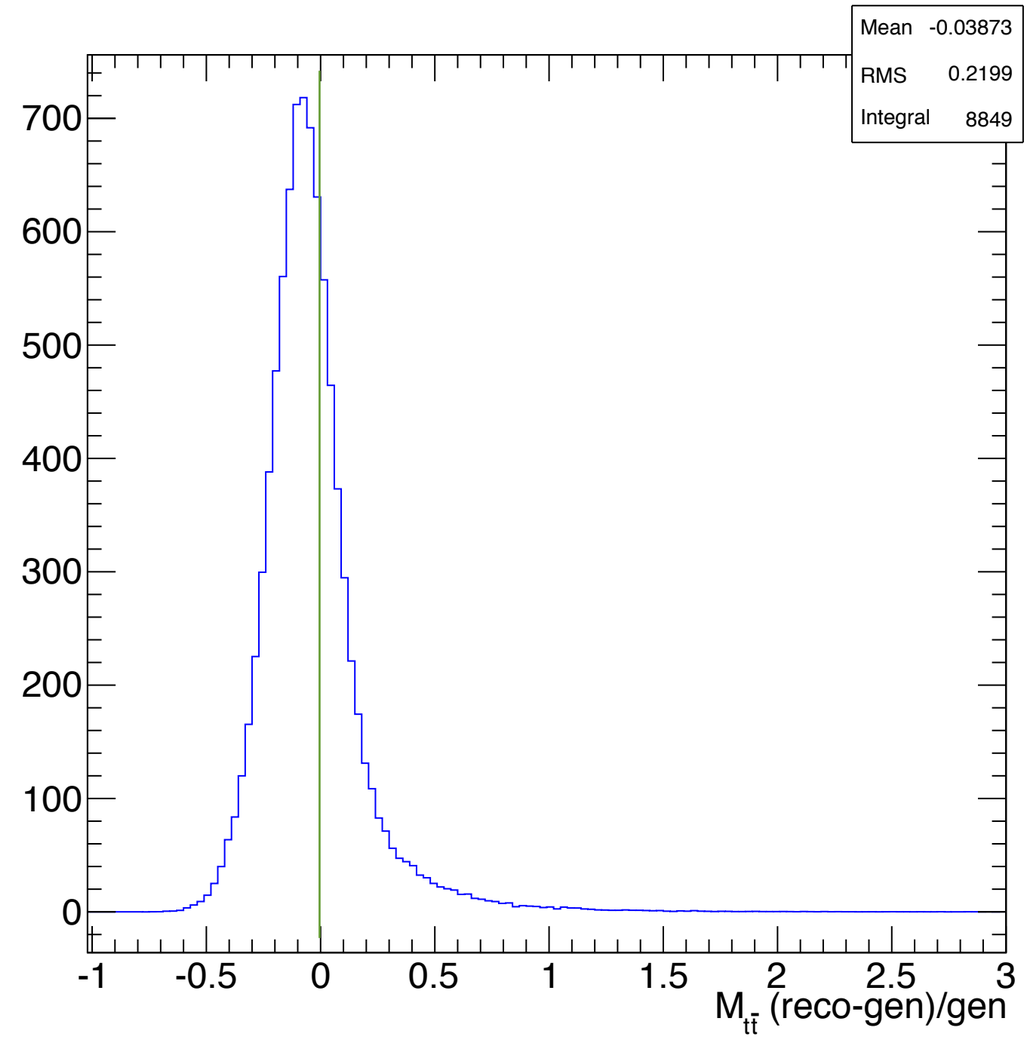


With jet smearing

Constrain $M_{top} = M_{top}^{MaxSumWeights}$ then constrain $jetperm^{MaxSumWeights}$

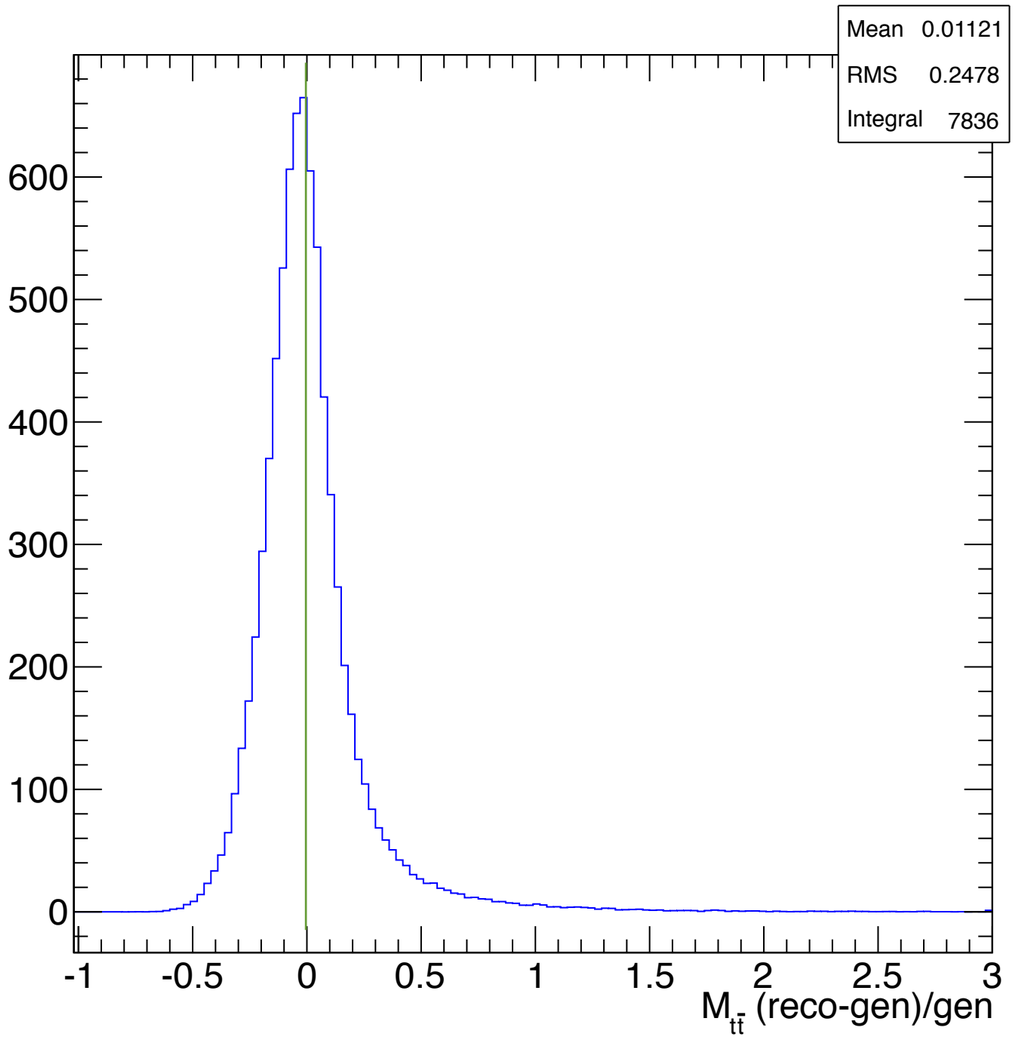


No jet smearing

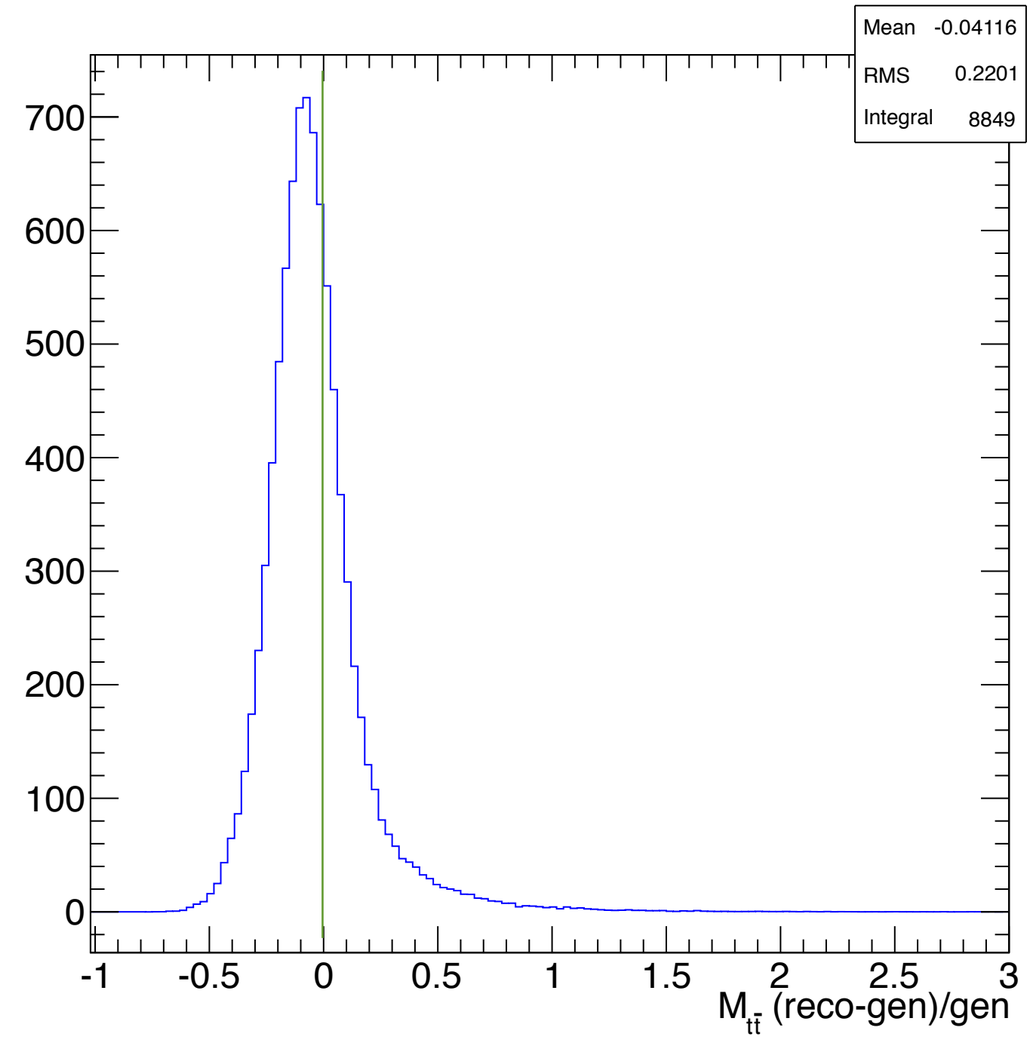


With jet smearing

Constrain jetperm^{MaxSumWeights} then constrain $M_{top} = M_{top}^{MaxSumWeights}$

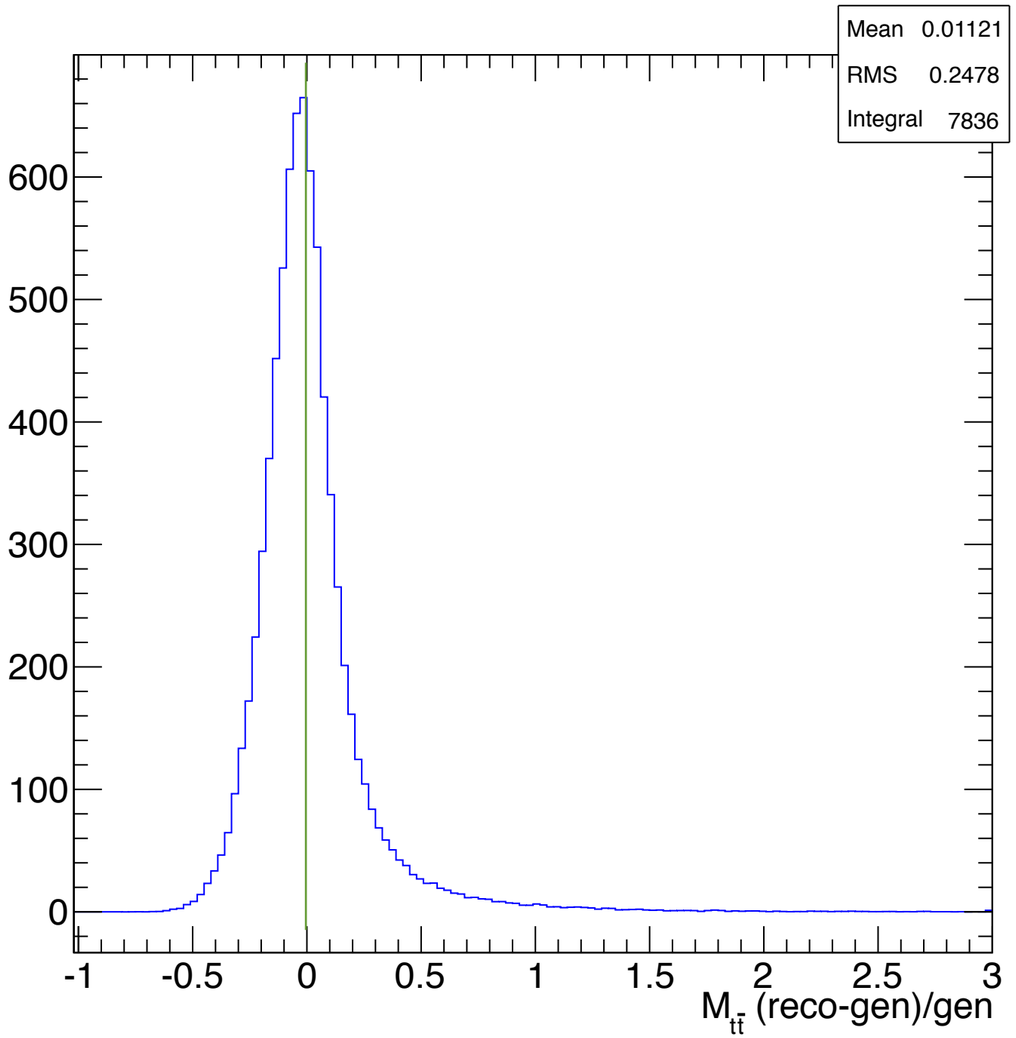


No jet smearing

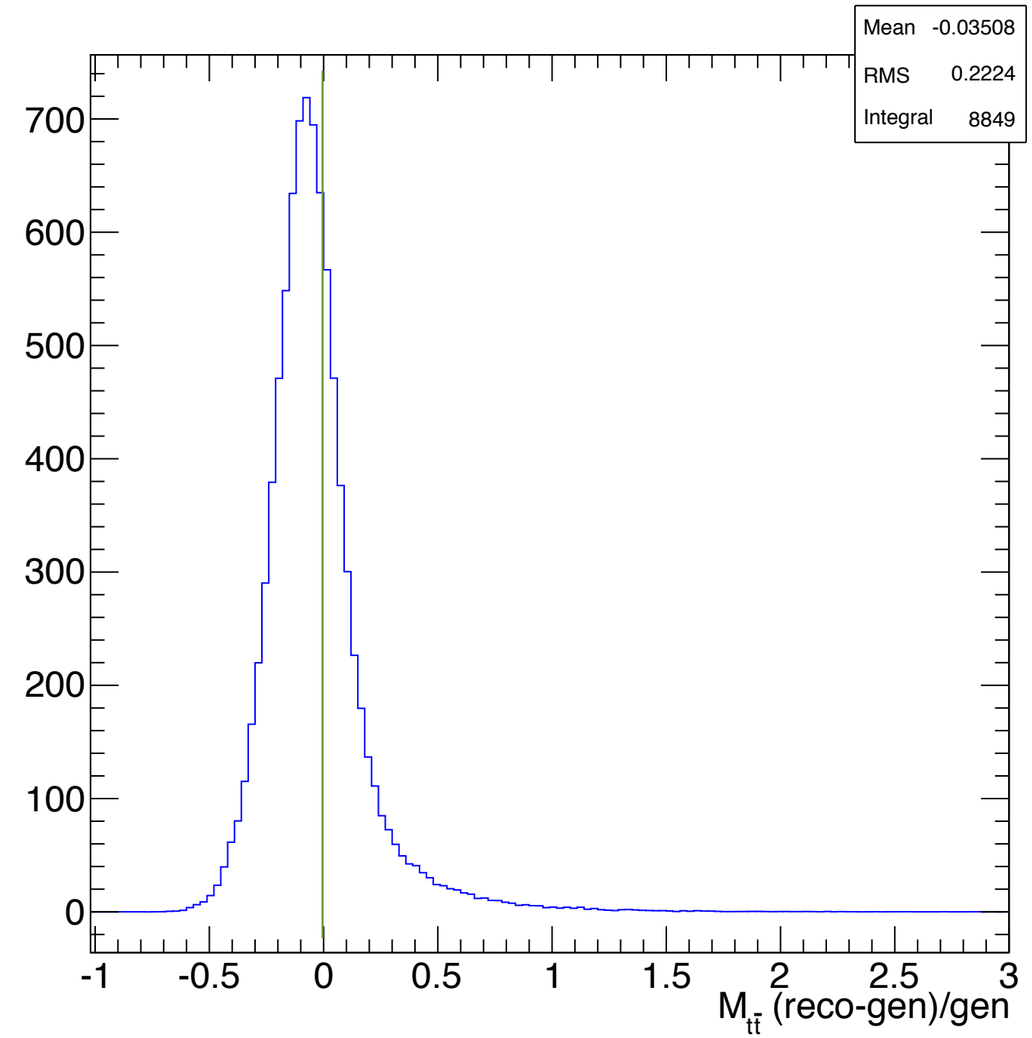


With jet smearing

Constrain jetperm^{MaxSumWeights} then constrain $M_{top} = M_{top}^{MaxSumWeights}$ then constrain nusoln = nusoln^{MaxSumWeights}



No jet smearing



With jet smearing

not sure how reliable these results are because in principle neutrino solutions will change in number and/or identity for different smearing iterations