

ATLAS Selection for Xsec (II)

Get purer samples by adding

M_W constraint: at least one of three di-jet sys in top candidate has $|M_{jj}-M_W| < 10 \text{ GeV}$

jet scale

and/or

S/B~3.4

Centrality : require

$|\eta_{\text{jet}}| < 1$ for 3 highest Pt jets

S/B~5

jet angular res

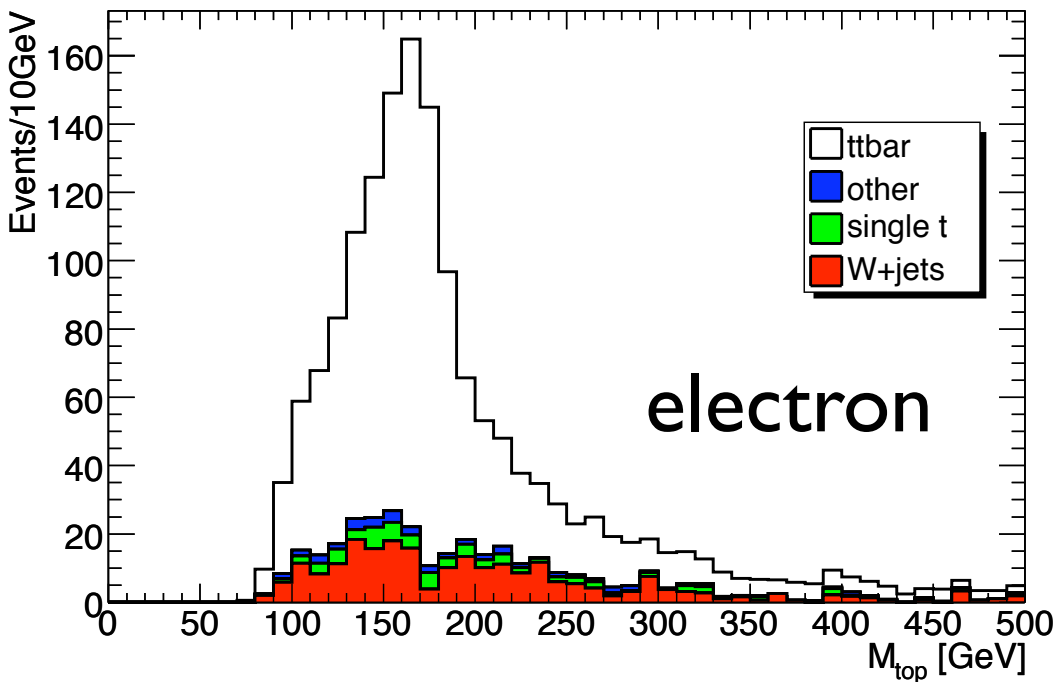
Possible additions:

Cut on total mass of event

cut on cos

Single Lepton Reconstruction

Top quark candidate: 3-jet combination with highest P_T
 Expect peak in top mass



Get purer samples by adding

M_W constraint: at least one of three di-jet sys in top candidate has $|M_{jj} - M_W| < 10$ GeV and/or

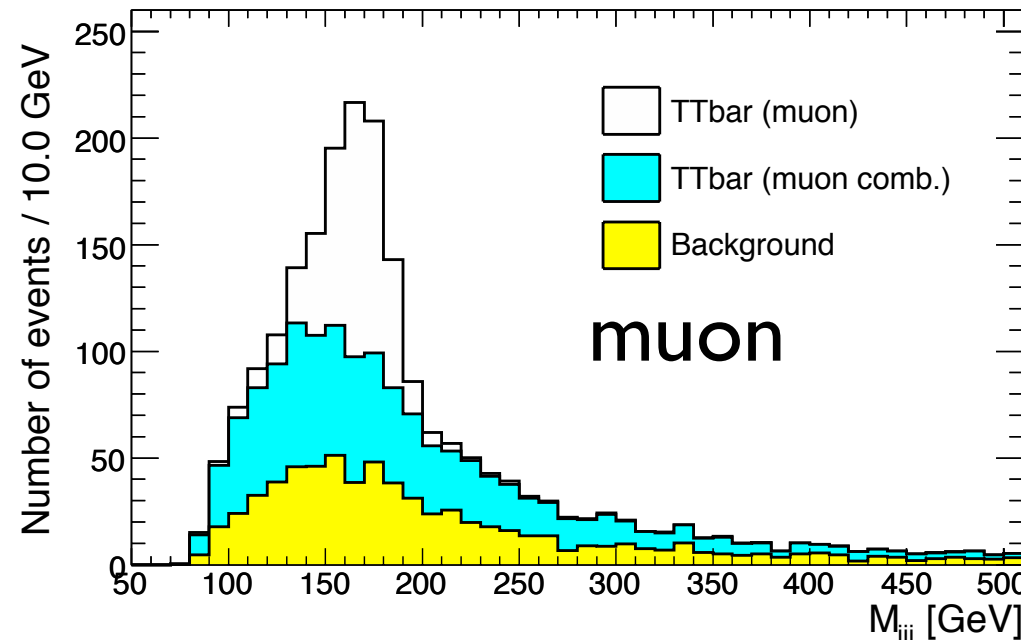
Centrality: require $|\eta_{jet}| < 1$ for 3 highest P_T jets

$S/B \sim 3.4$

jet scale

$S/B \sim 5$

jet angular res



Top masses shown with M_W constraint
 Tails result from comb bkg