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 GeV

jet scale

and/or

S/B~3.4

Central jets : require $|\eta_{jet}|<1$ for **3** highest Pt jets
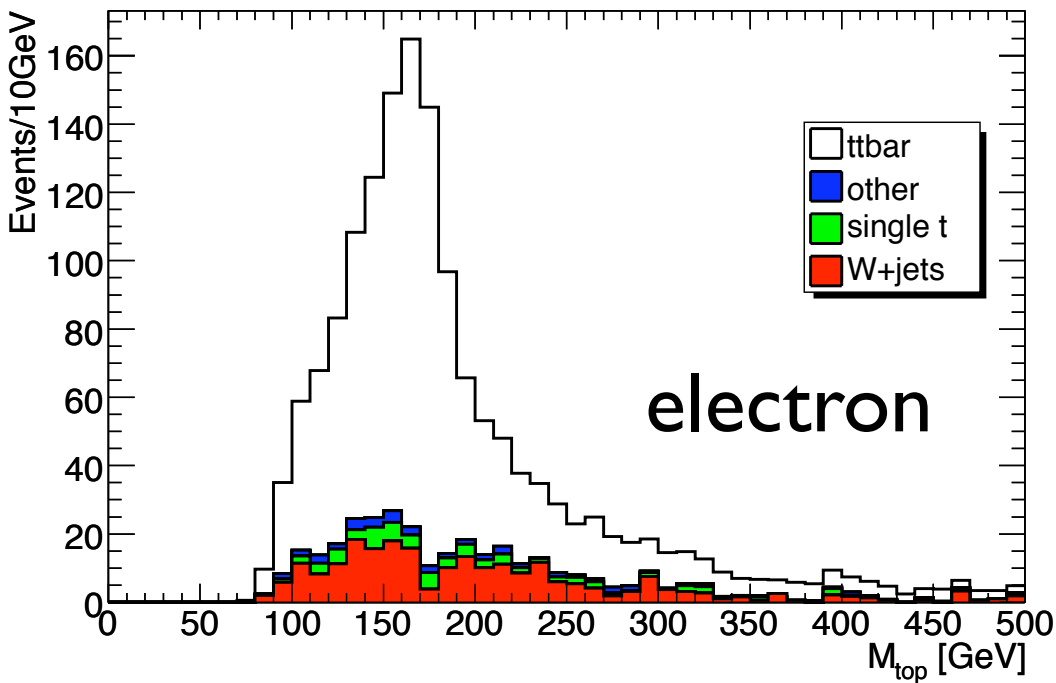
S/B~5

jet angular res

Possible additions:
Cut on total mass of event
cut on $\cos\theta_*$

Single Lepton Reconstruction

electron

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

Top masses shown with M_W constraint

Tails result from comb bkg

muon