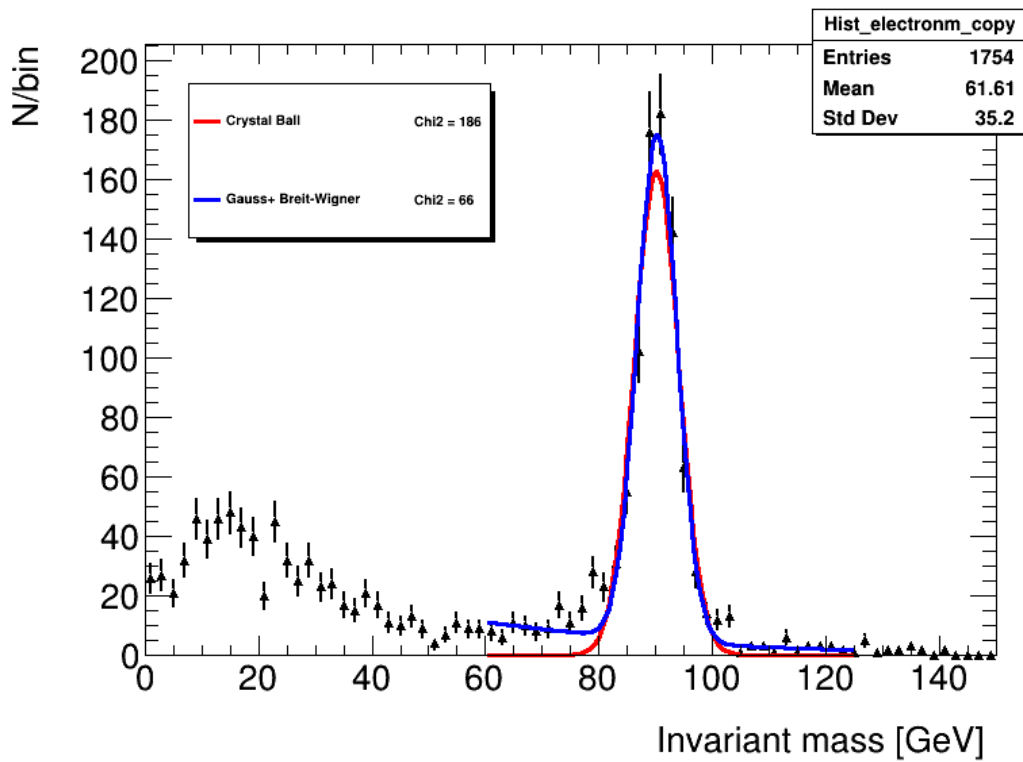
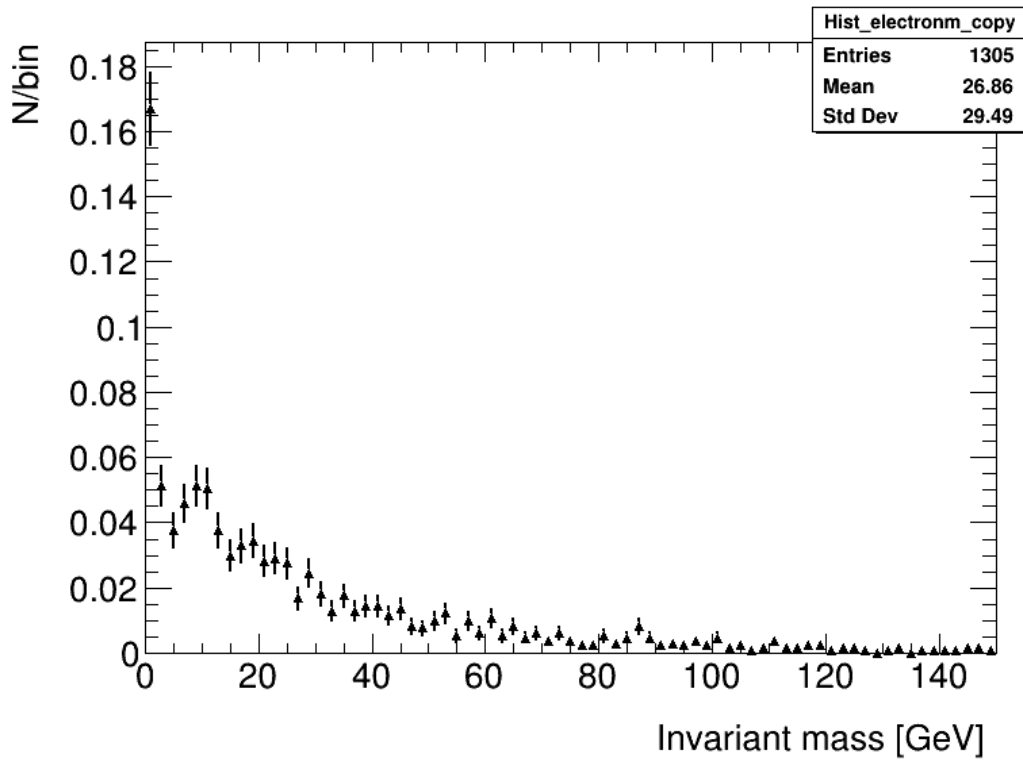


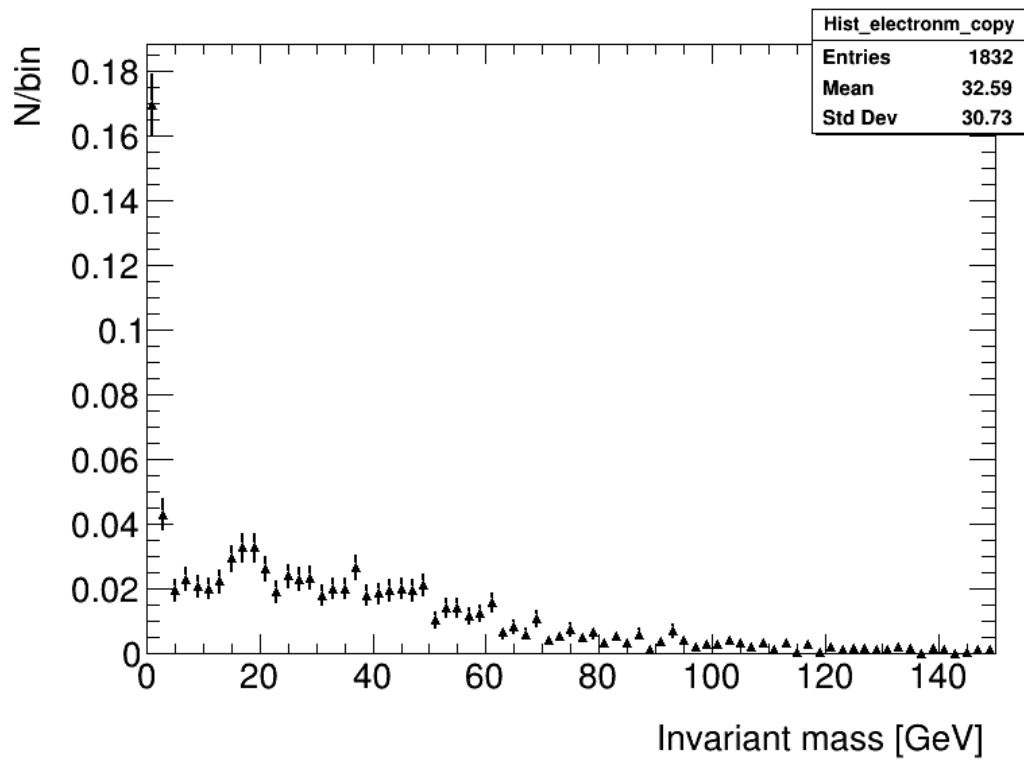
Z to ee sample



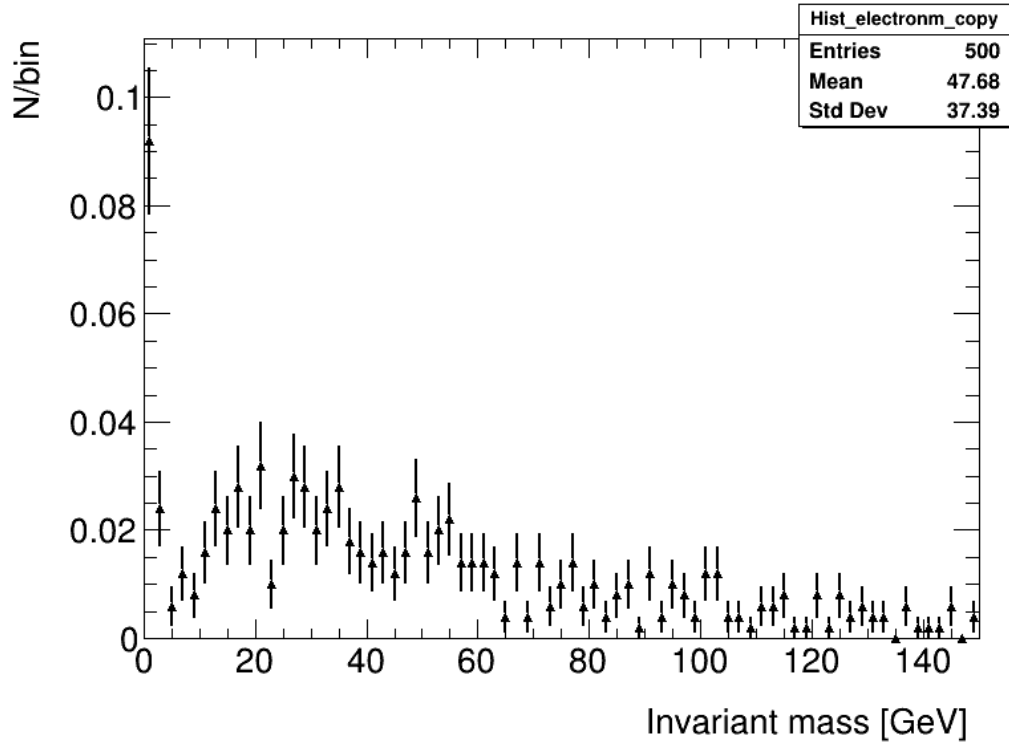
Diboson



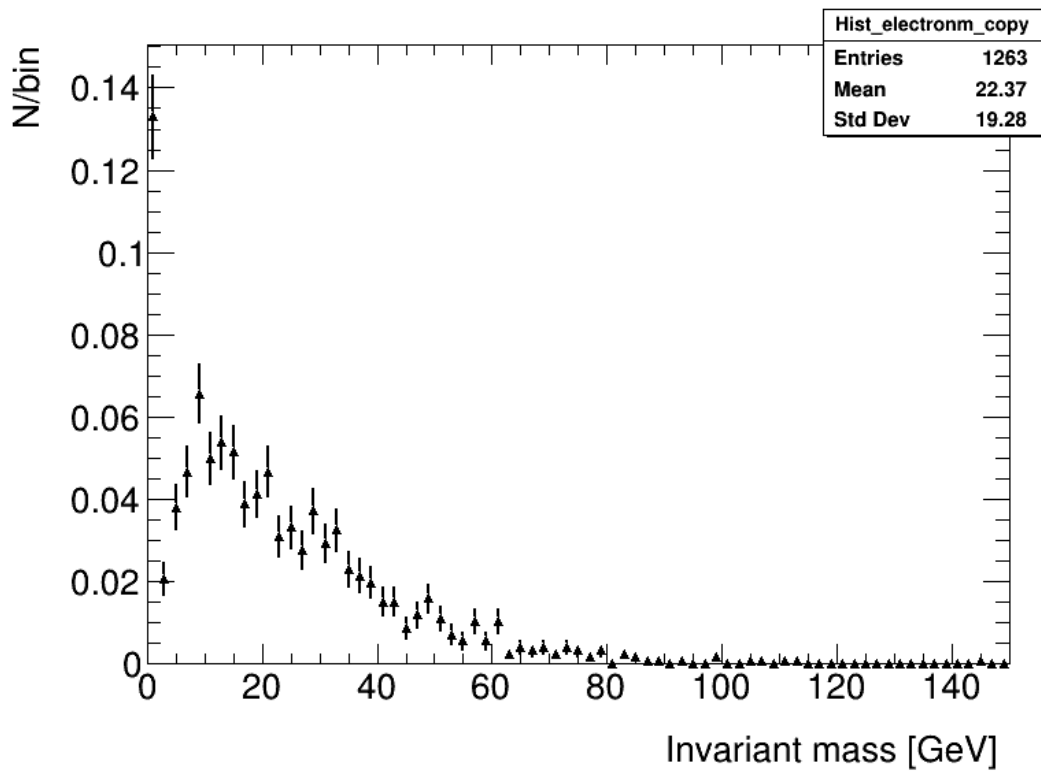
Top



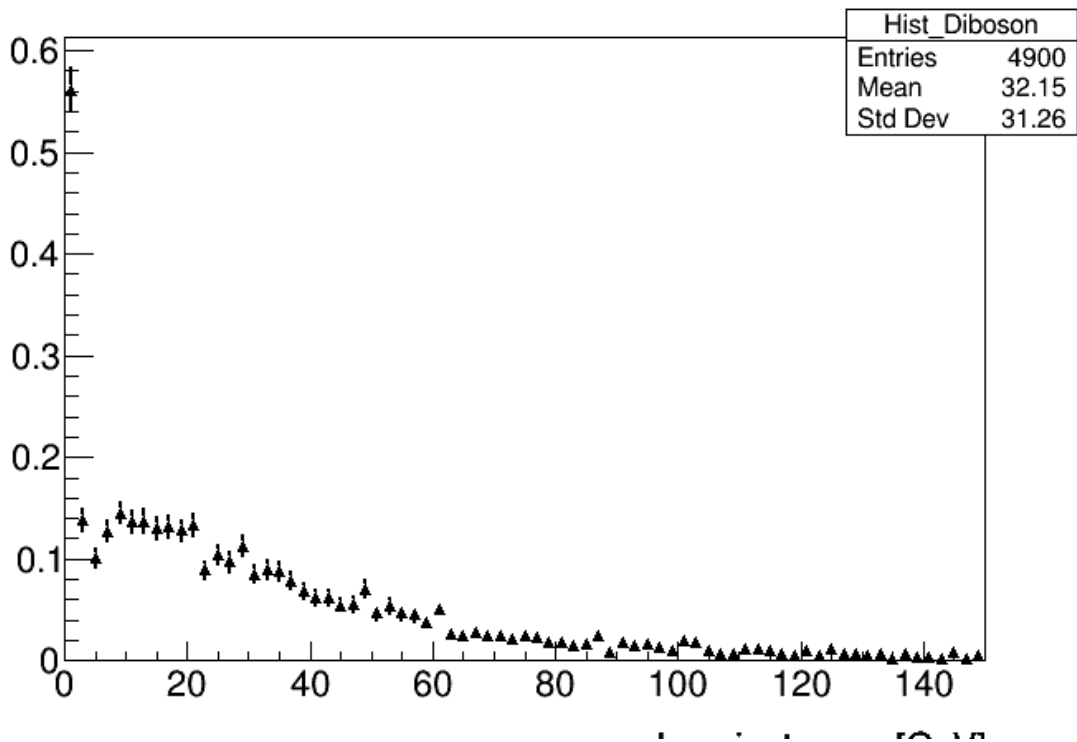
Ttbar



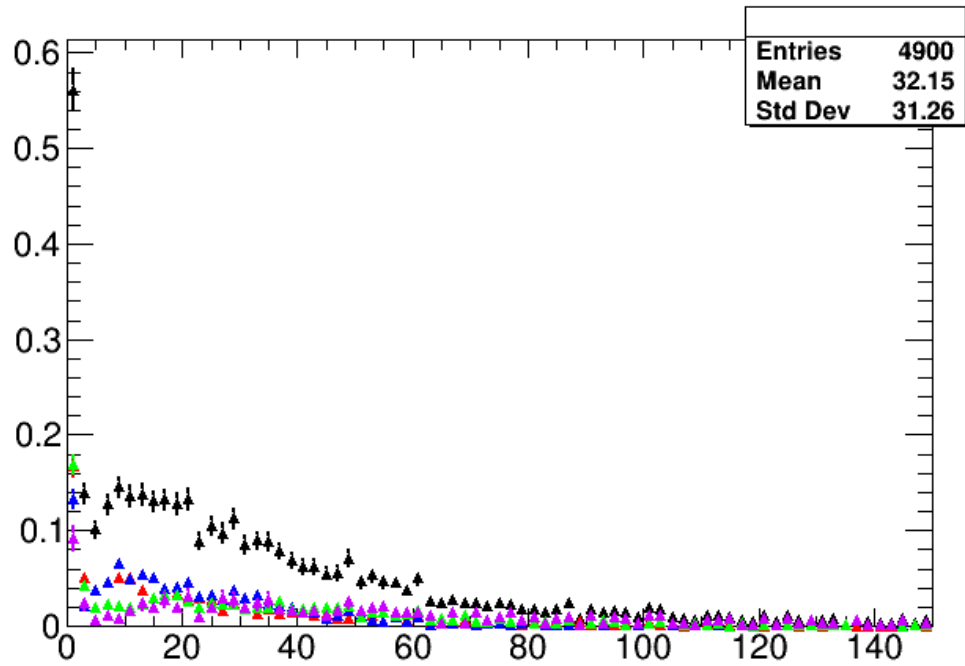
Z to tautau



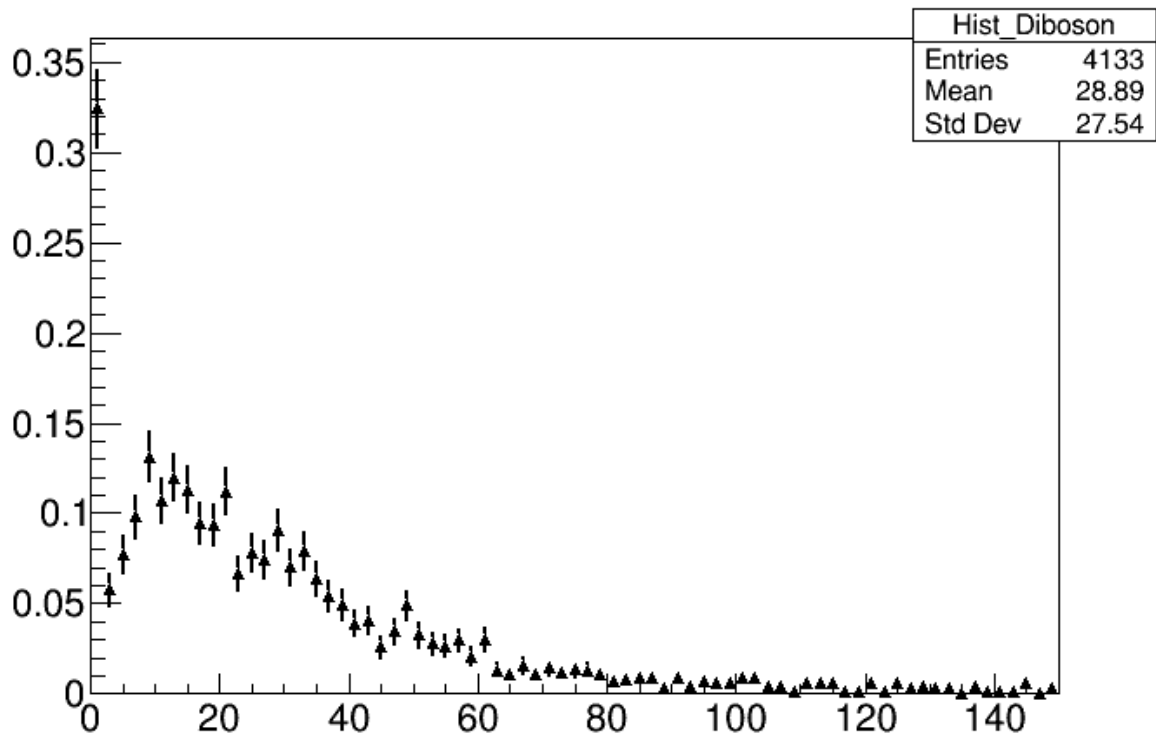
Sum of the backgrounds



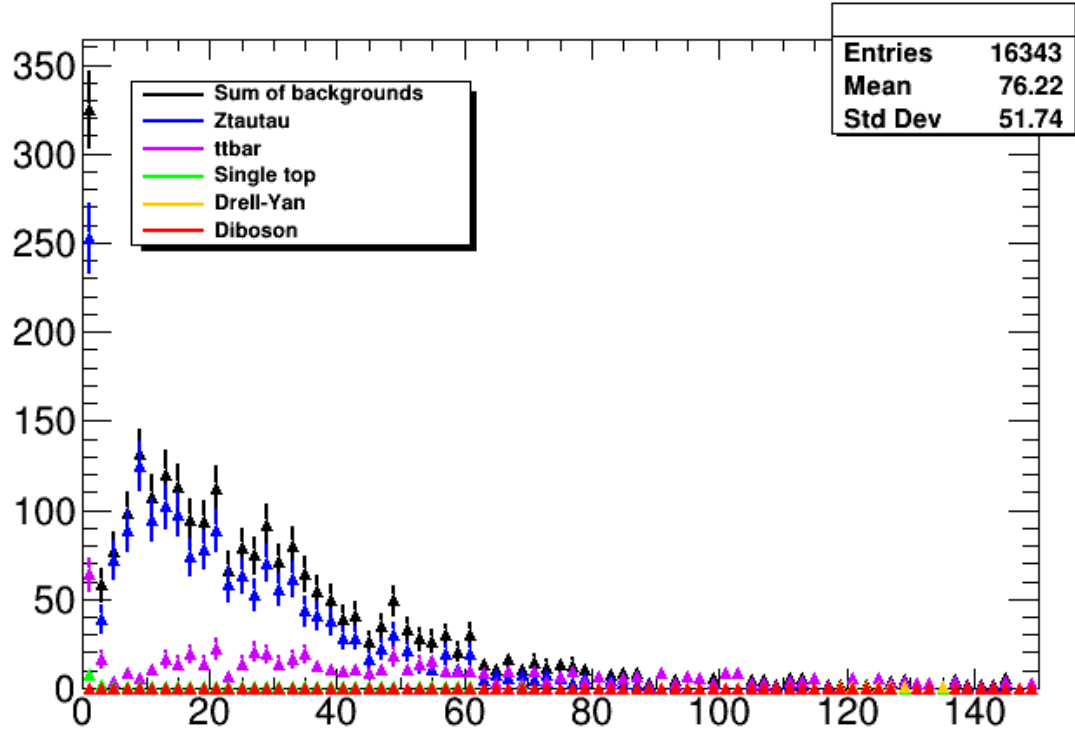
Black is the sum, blue is Ztautau, ttbar is violet, single top is green and diboson is red.



Sum of
the background with cross sections



Sum of background with the different background components. Black is the sum, blue is Ztautau, ttbar is violet, single top is green, Drell-Yan is orange and diboson is red.

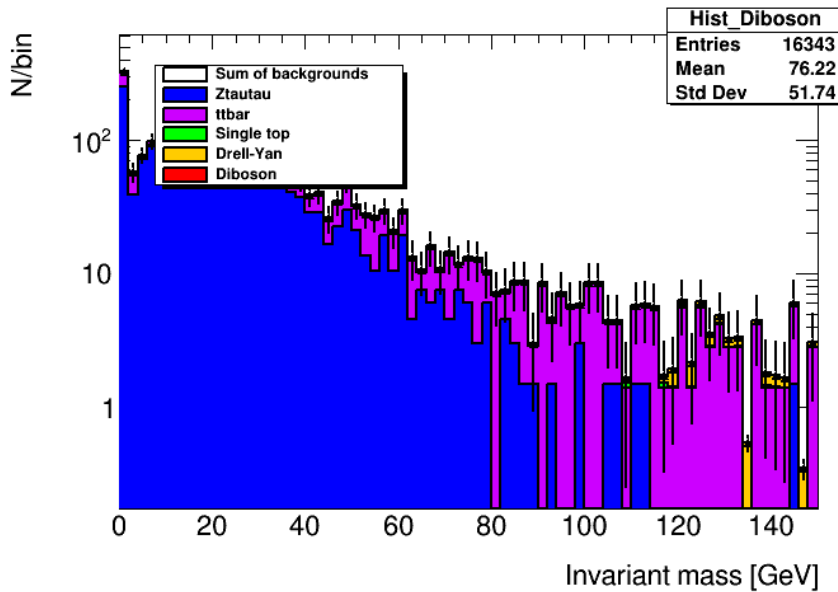
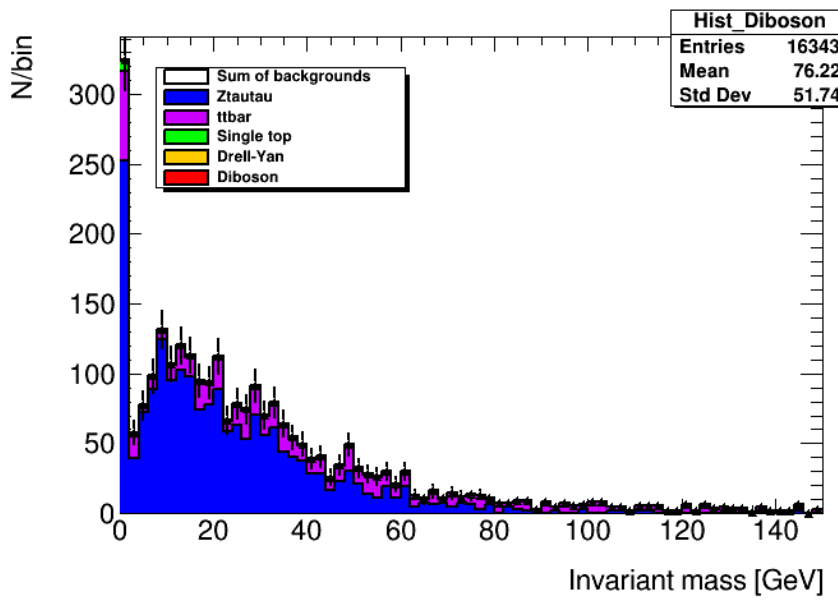
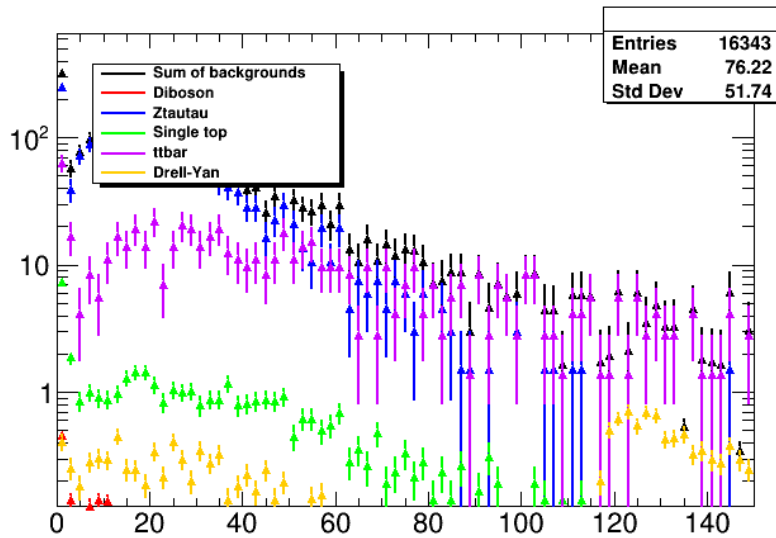


Significance = signal / sqrt(signal+background) signal is the number of entries in Z dis within 3 sigma of centre of peak and background is the non-Z dis in this region. Then look at cuts to see what happens. Cut ideas(selection): leading p_T and sum of p_T

Signal= 0.520525

Background= 2.70919e-05

Signi= 0.721452



Drell Yan plot.