

# J/ $\psi$ embedding in p+p 2009

## 200GeV

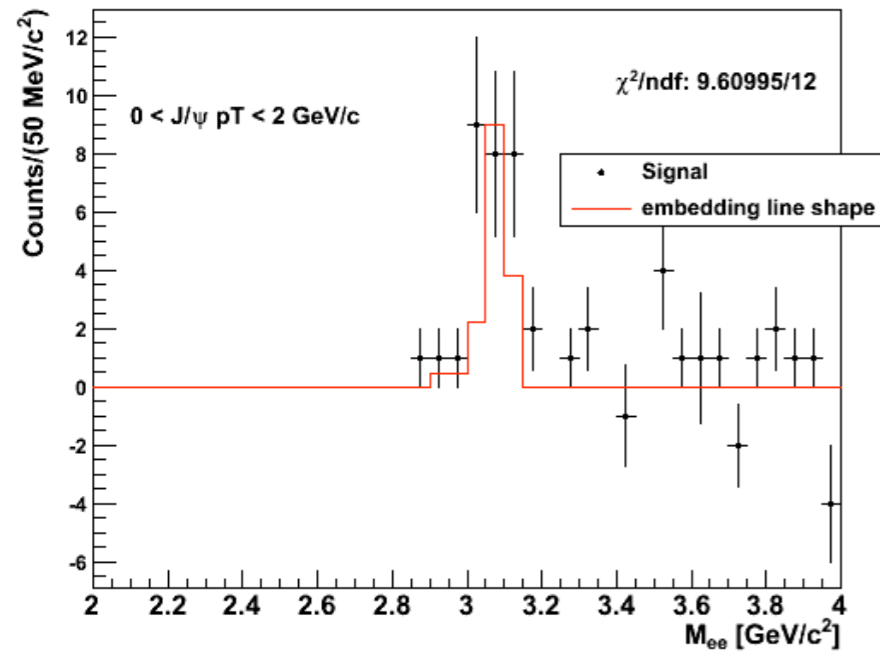
### HT0!\*HT2 trigger

J/ $\psi$  MC  $p_T$  and MC  $y$  is taken for weights calculation

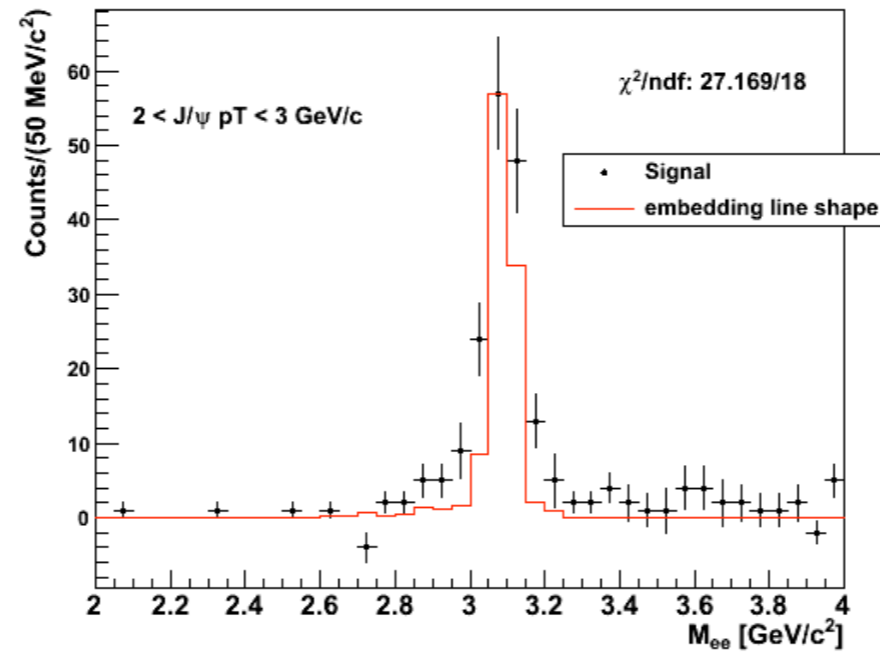
# J/ $\psi$ signal with a line shape from the J/ $\psi$ embedding

electrons  $p_T$  cut 0.8 GeV/c

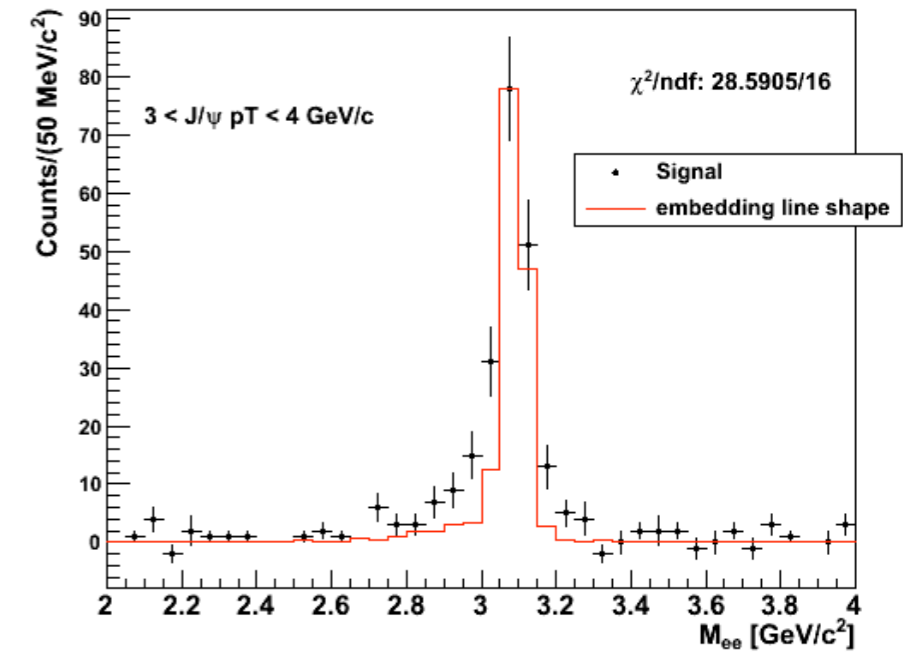
Dielectron  $M_{inv}$  distribution



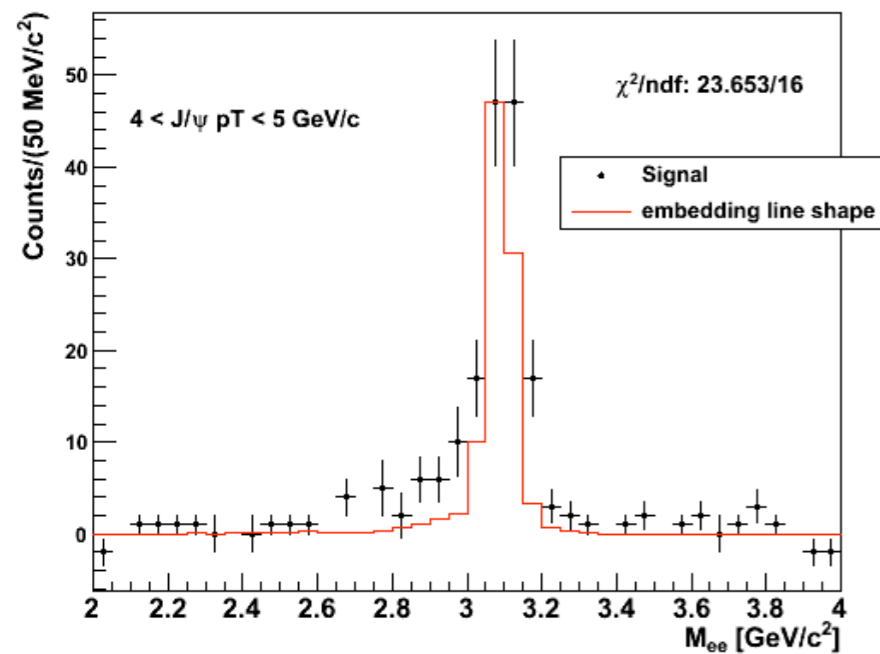
Dielectron  $M_{inv}$  distribution



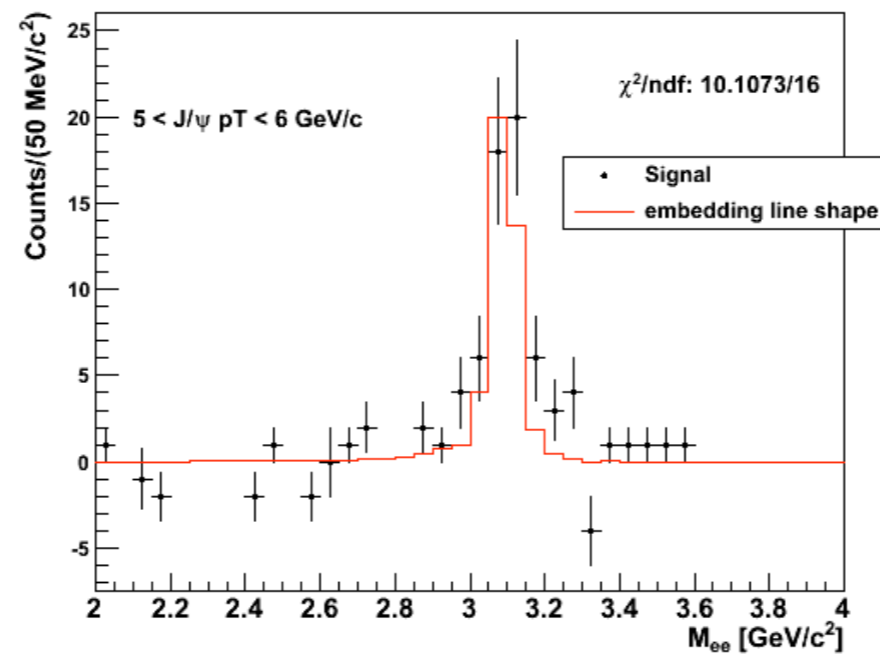
Dielectron  $M_{inv}$  distribution



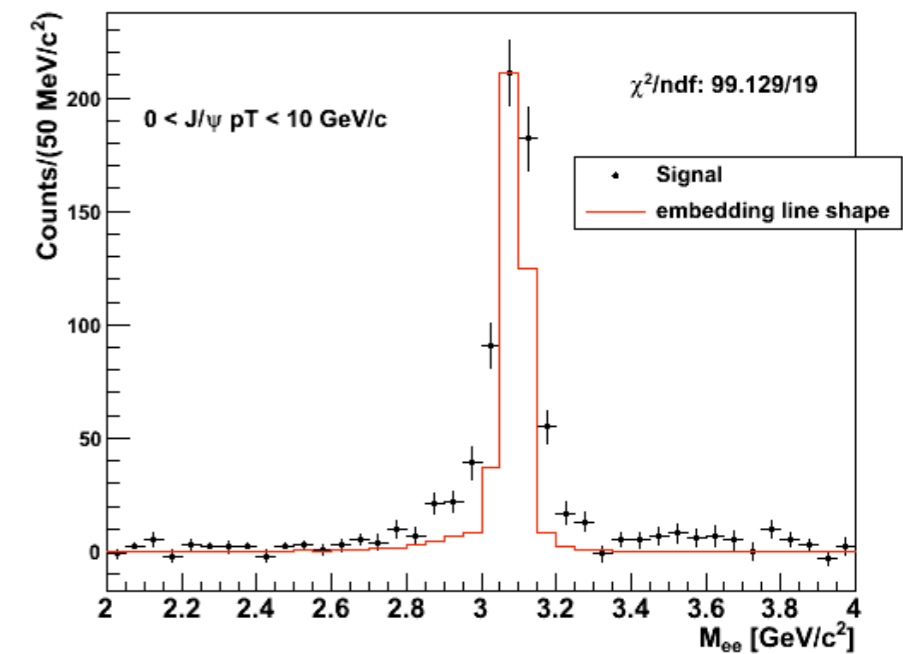
Dielectron  $M_{inv}$  distribution



Dielectron  $M_{inv}$  distribution

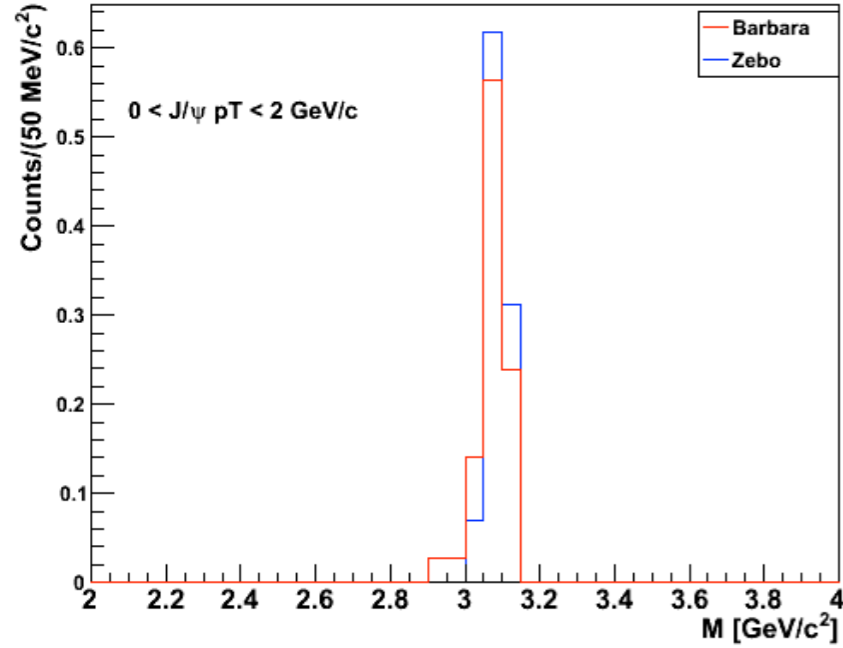


Dielectron  $M_{inv}$  distribution

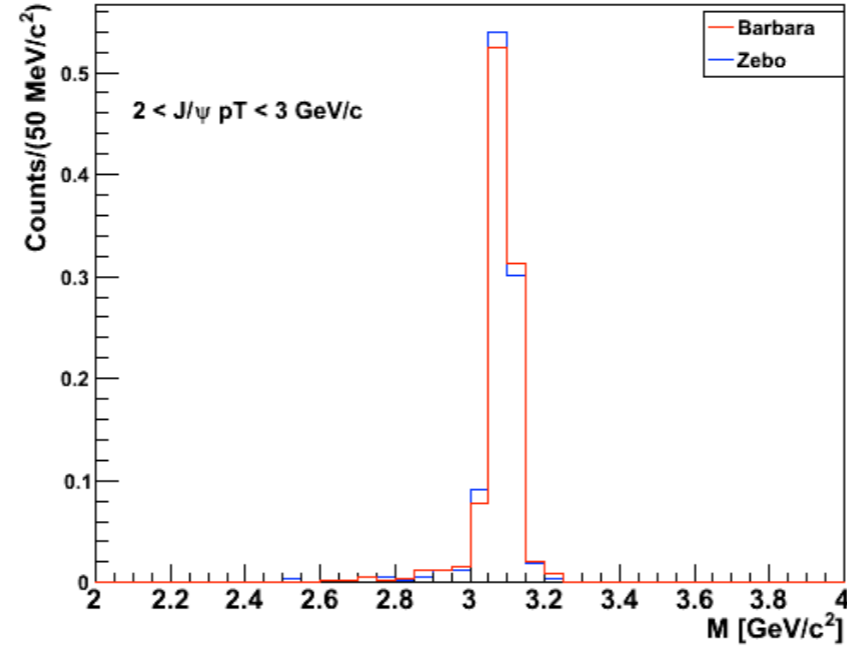


# line shape comparison with Zebo's $J/\psi$ line shape for HT0 trigger - the same embedding

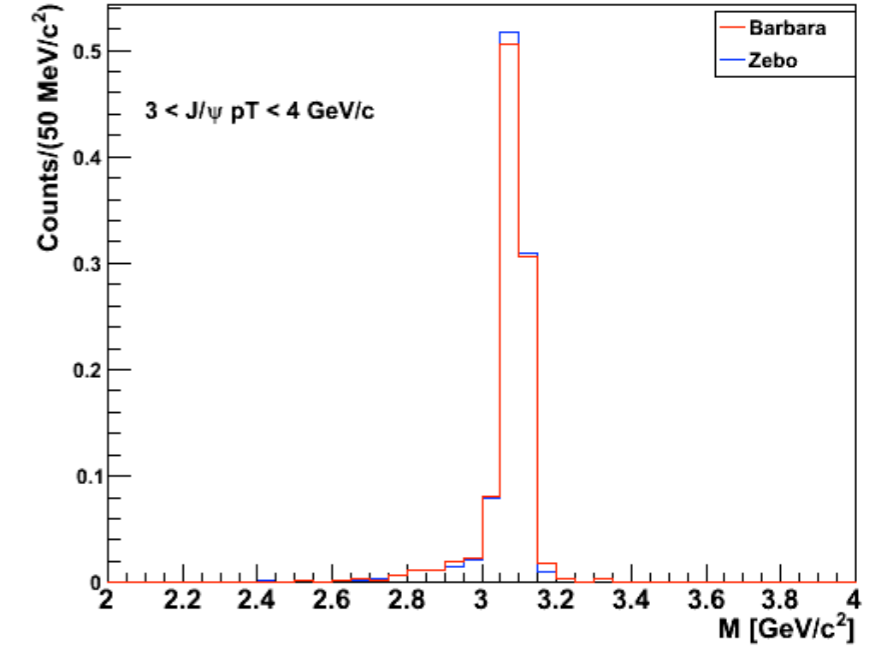
J/Psi line shape



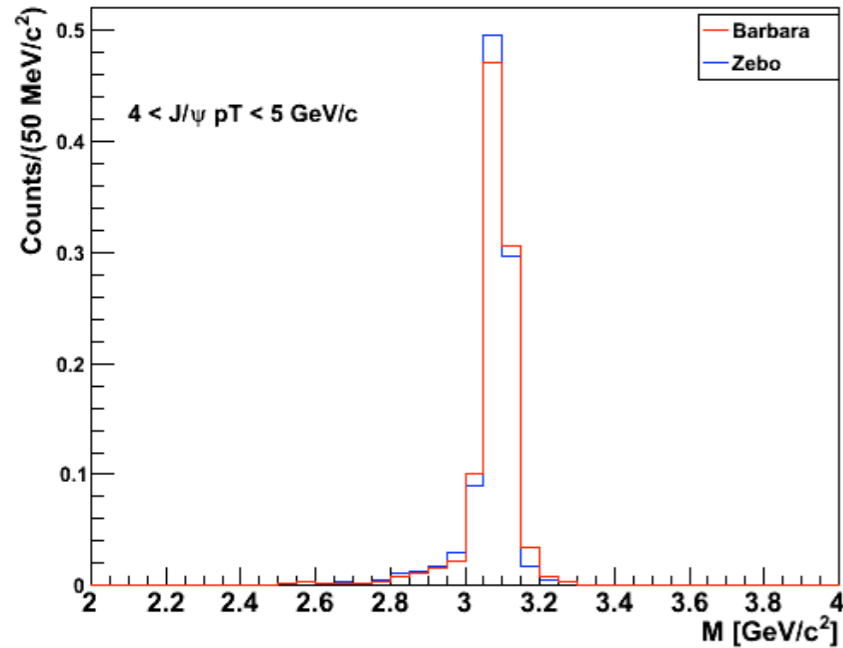
J/Psi line shape



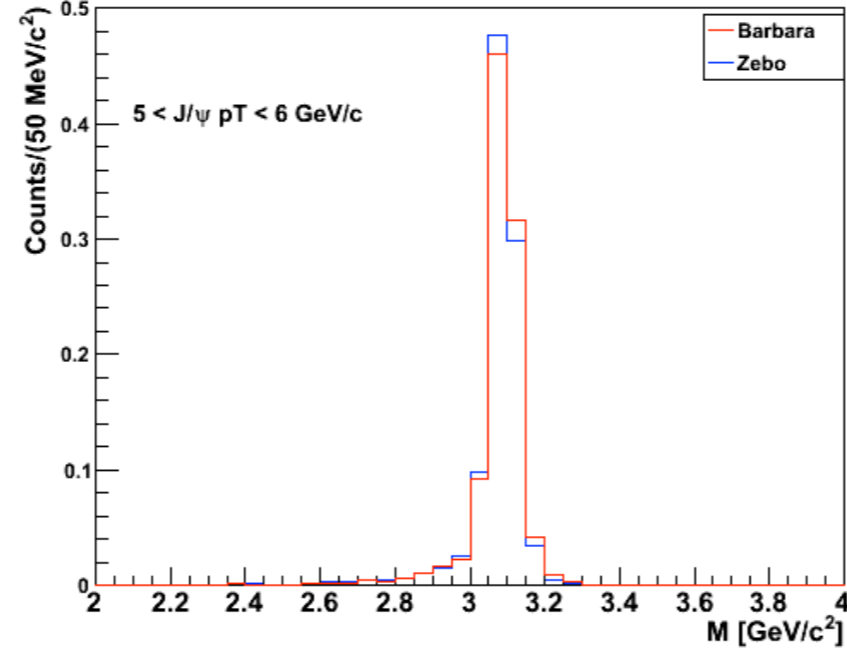
J/Psi line shape



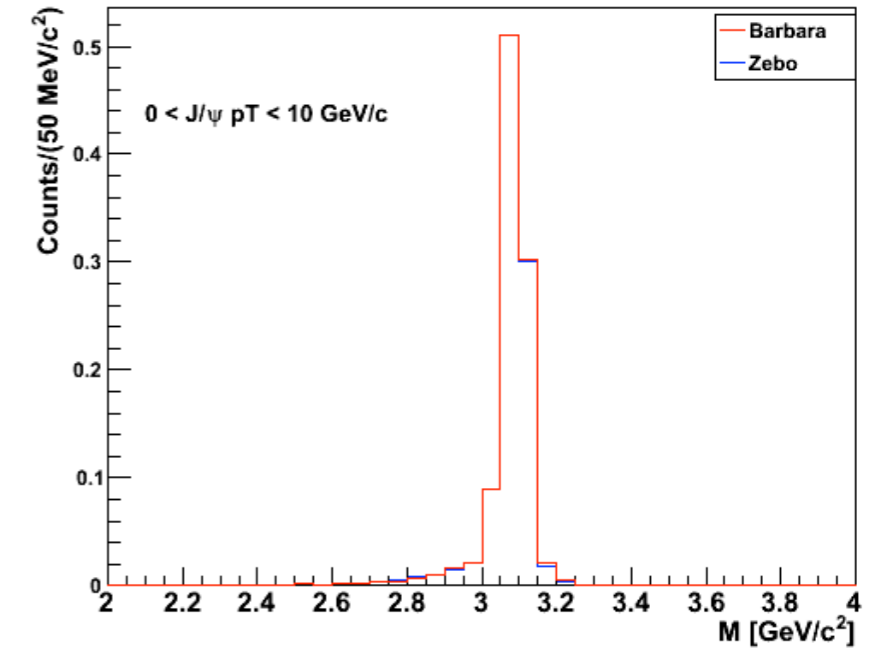
J/Psi line shape



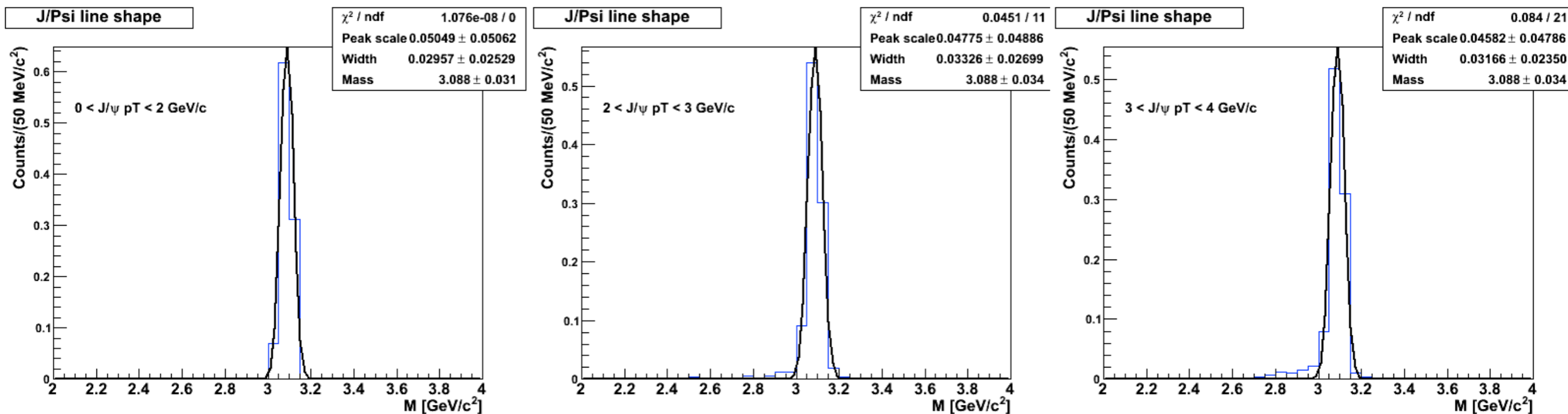
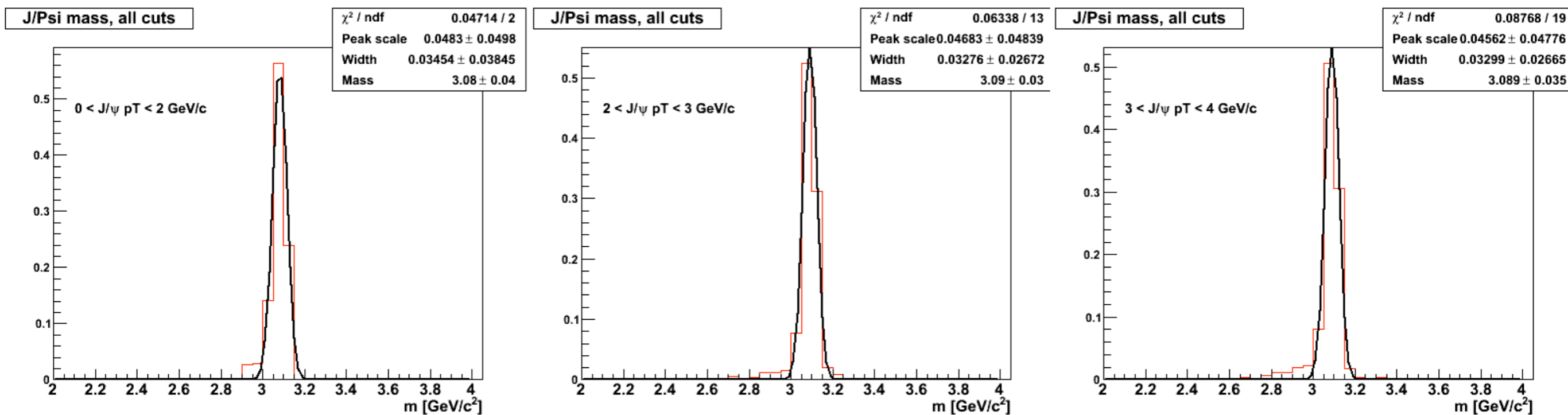
J/Psi line shape



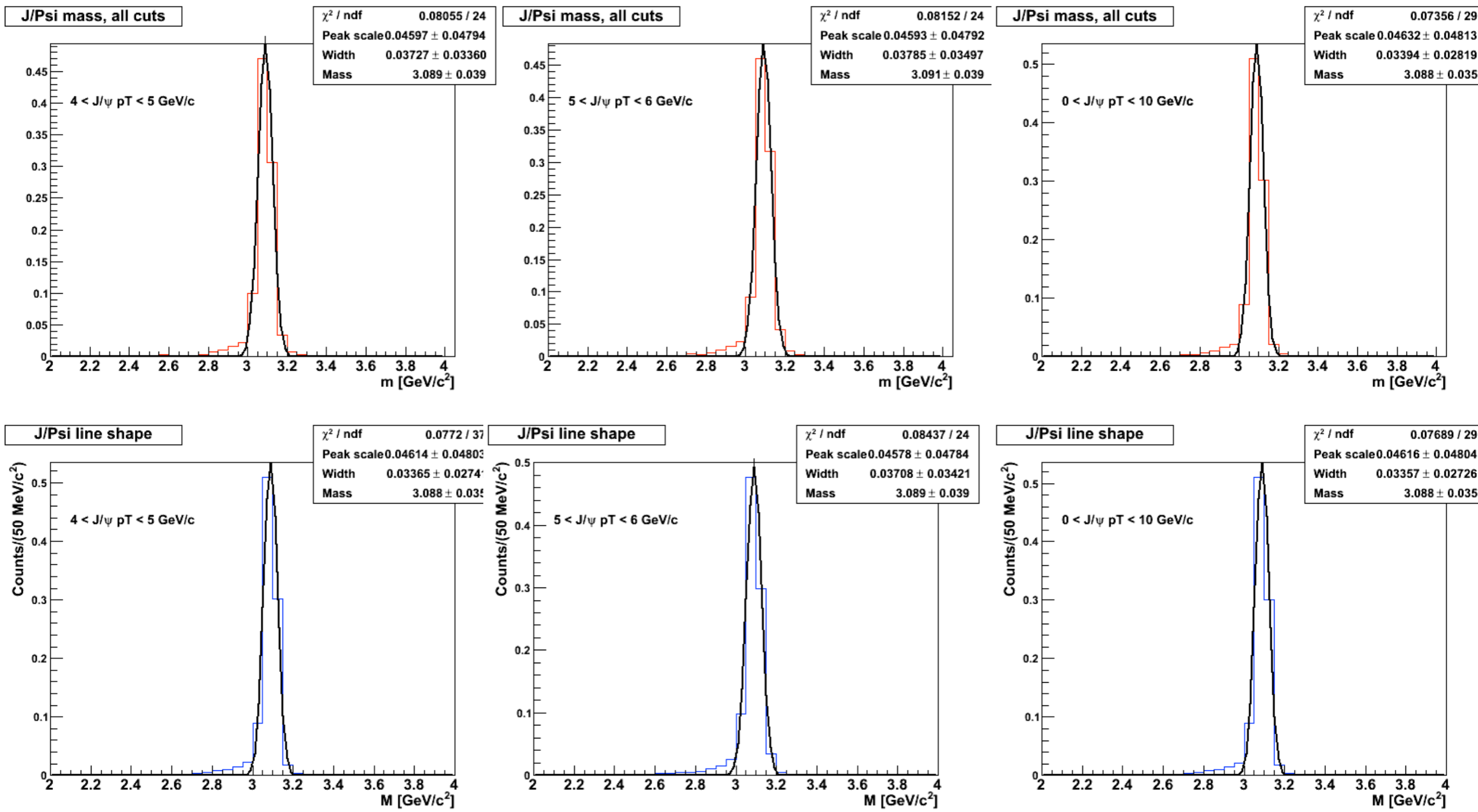
J/Psi line shape



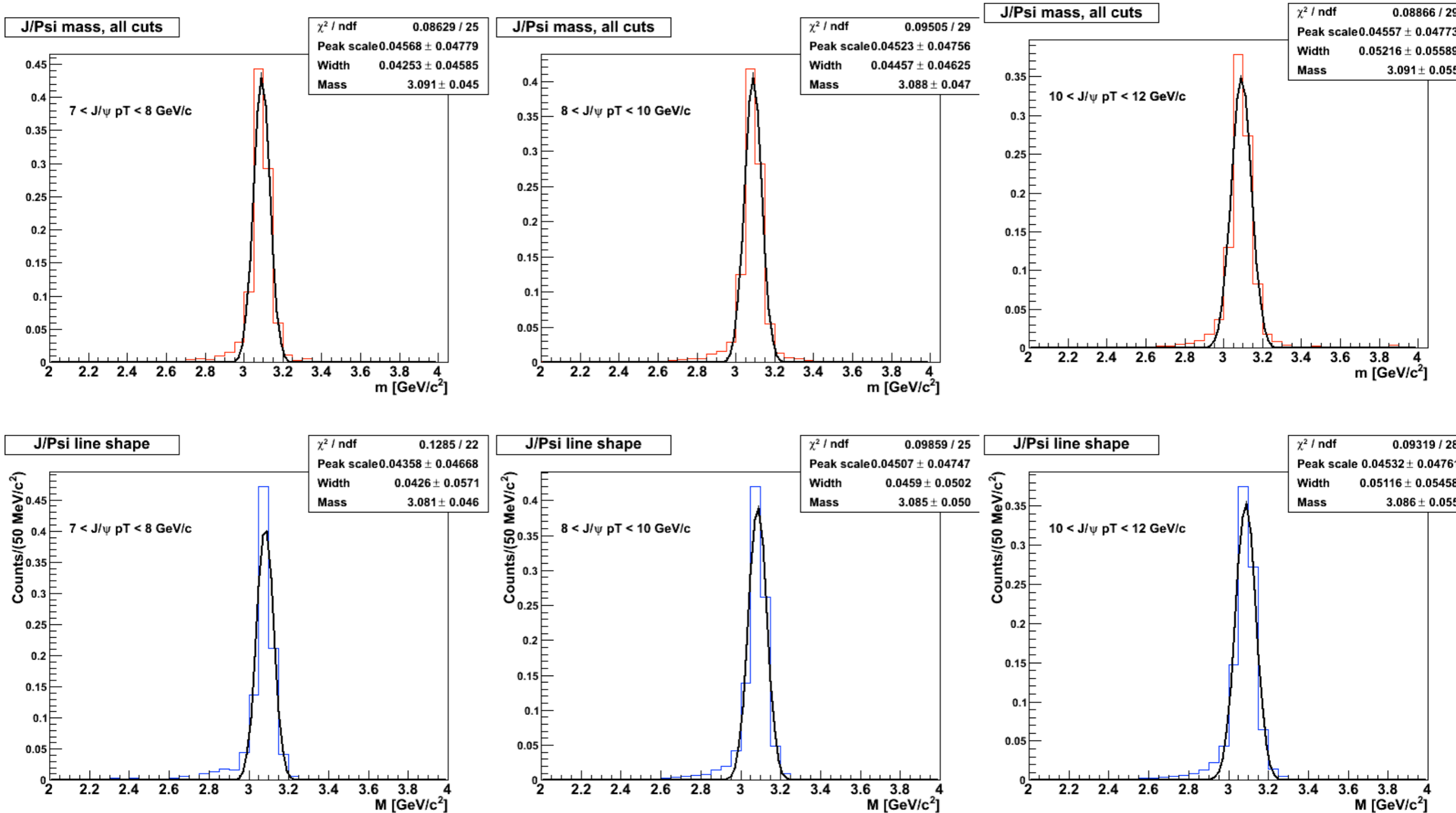
# line shape comparison with Zebo's $J/\psi$ line shape for HT0 trigger - the same embedding



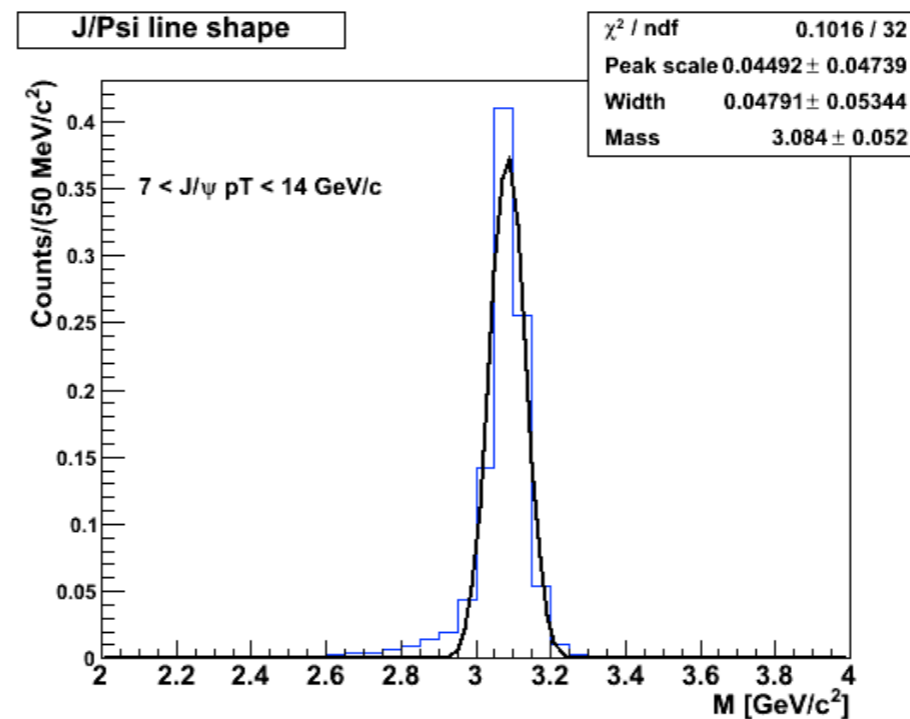
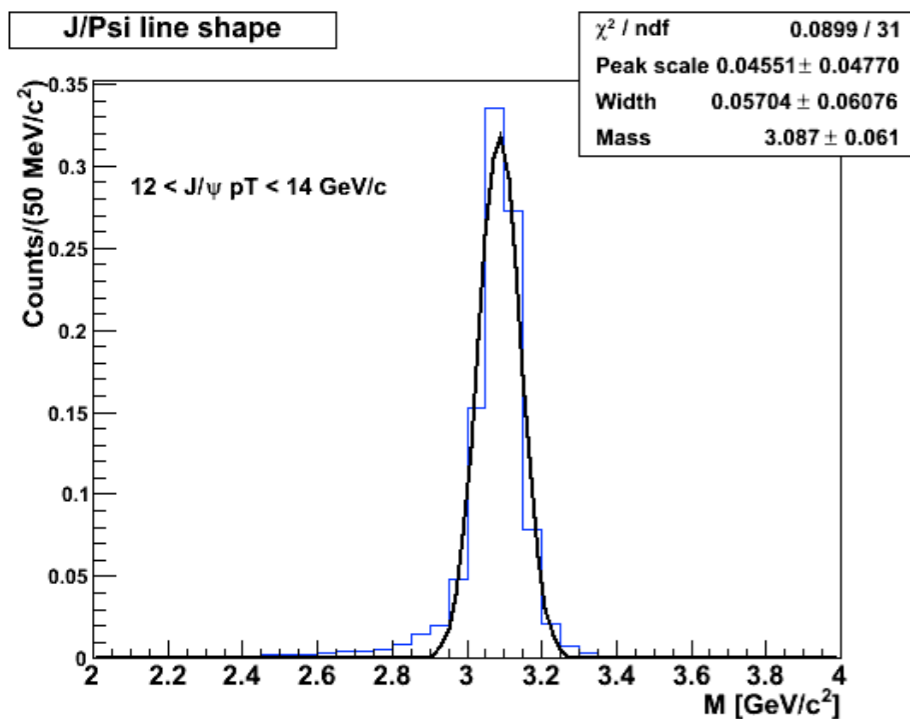
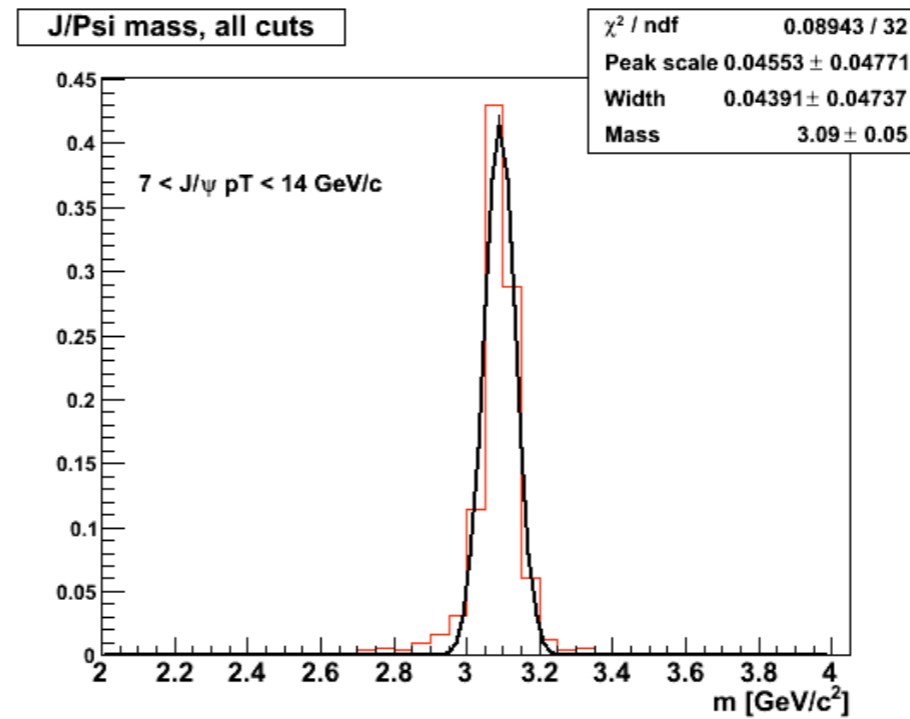
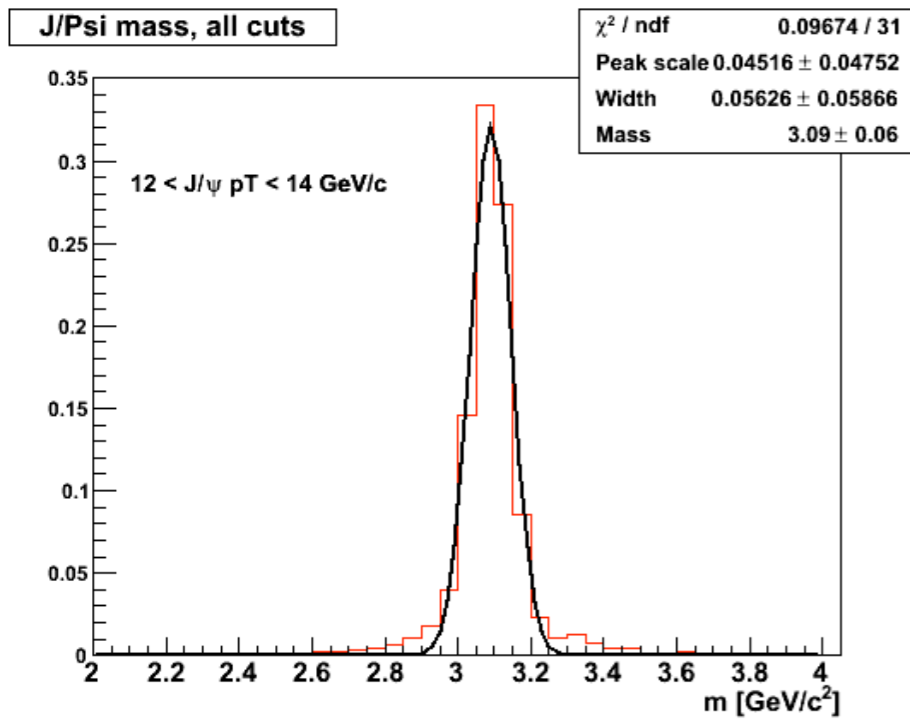
# line shape comparison with Zebo's $J/\psi$ line shape for HT0 trigger - the same embedding



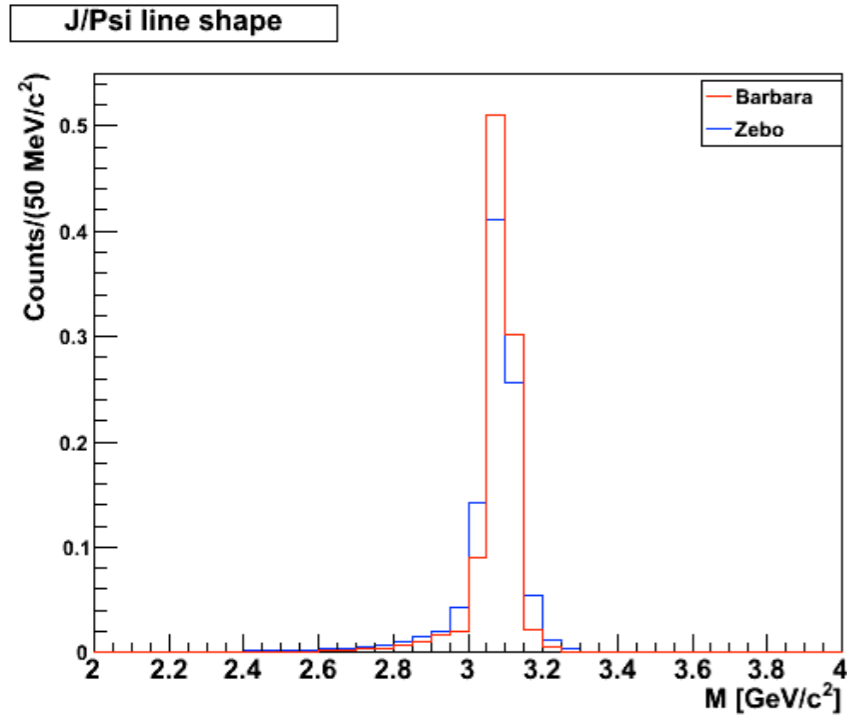
# line shape comparison with Zebo's $J/\psi$ line shape for HT3 trigger - the same embedding



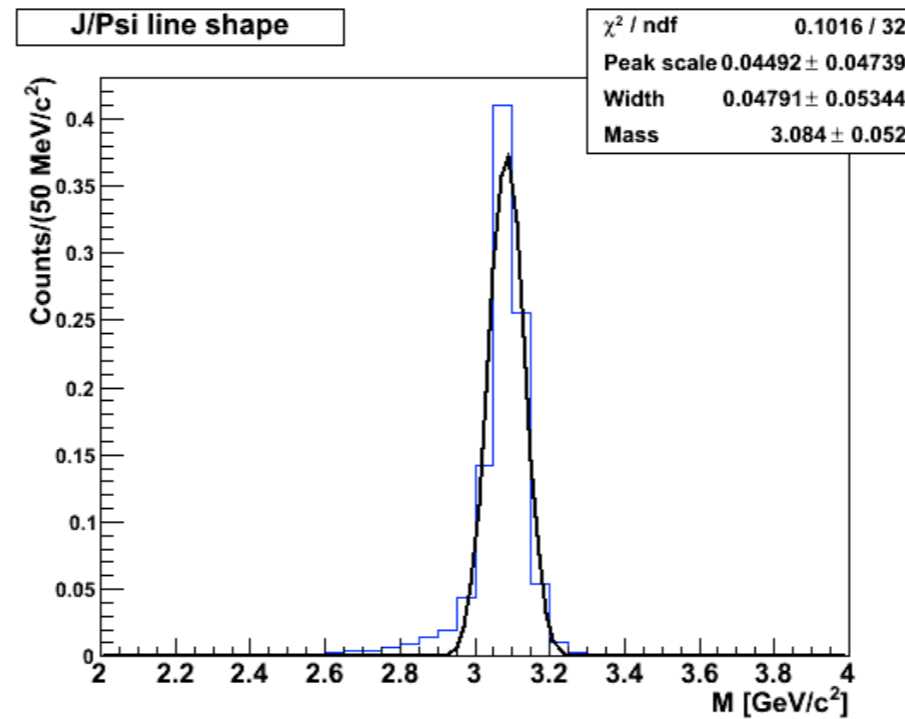
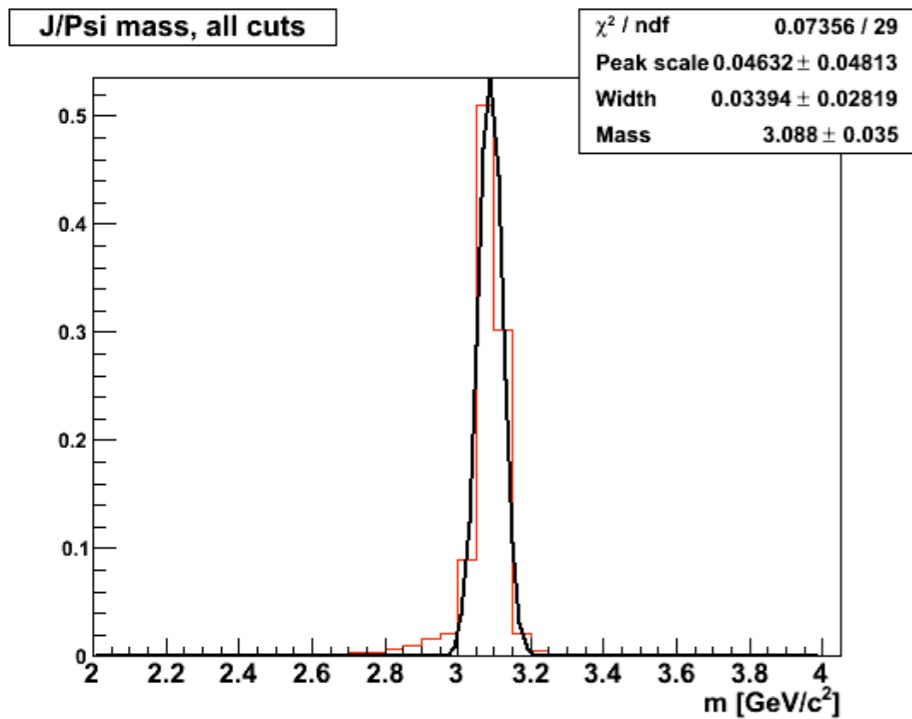
# line shape comparison with Zebo's $J/\psi$ line shape for HT3 trigger - the same embedding



# line shape comparison with Zebo's $J/\psi$ line shape for HT3 trigger - the same embedding



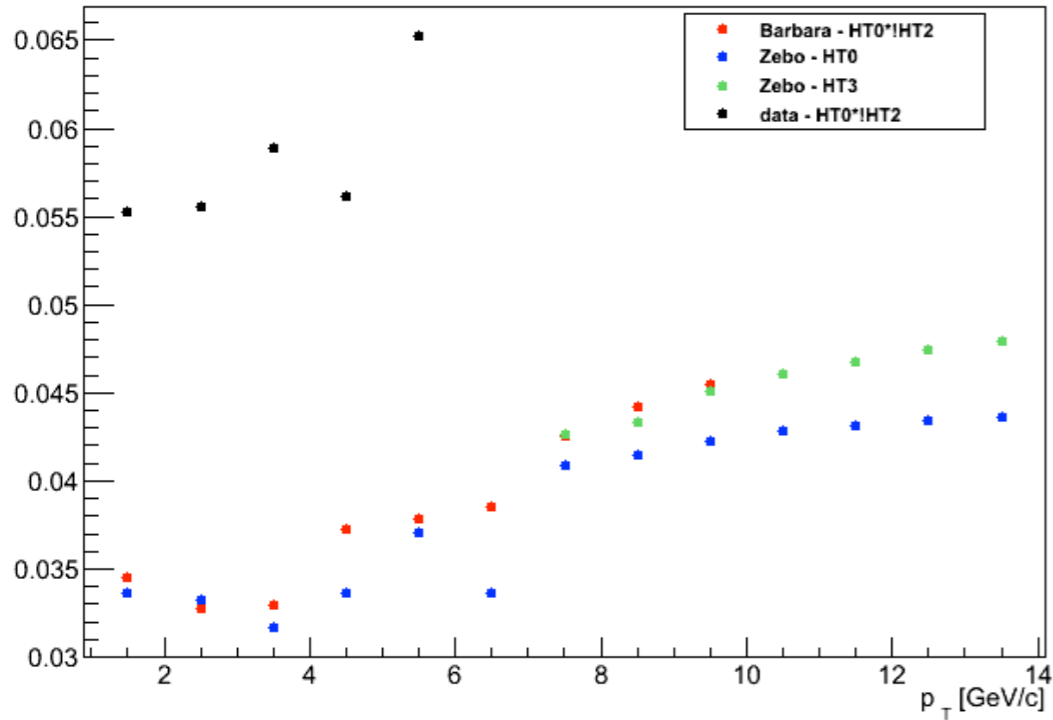
- distributions showed in Davis
- Zebo's is for HT3,  $7 < p_T(J/\psi) < 14$
- mine is for HT0\*!HT2,  $0 < p_T(J/\psi) < 10$



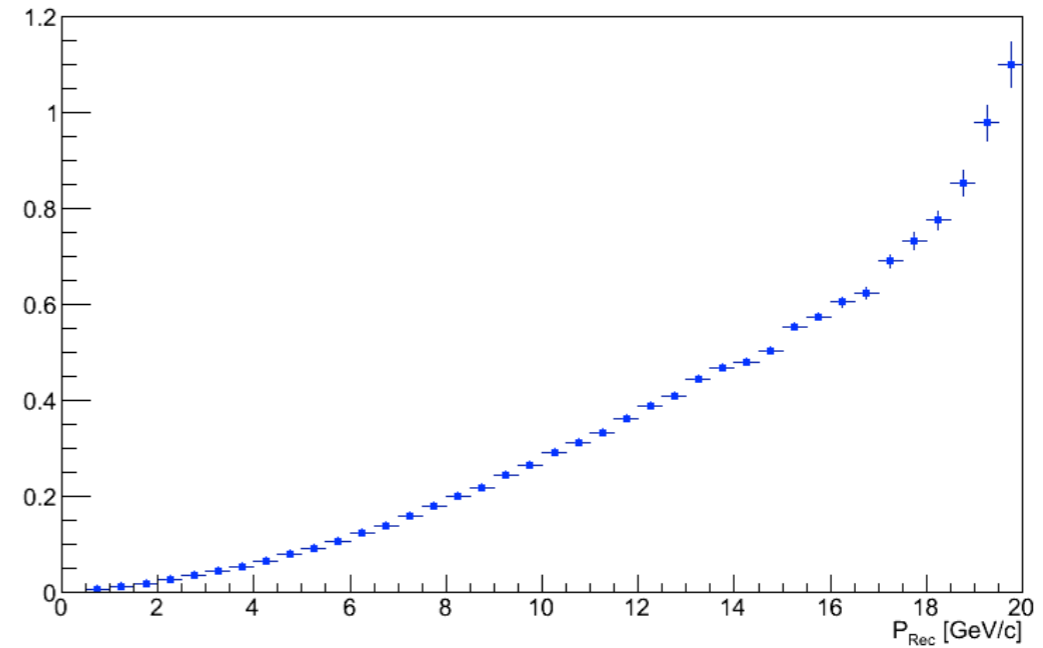


# lineshape width and momentum resolution from $J/\psi$ embedding

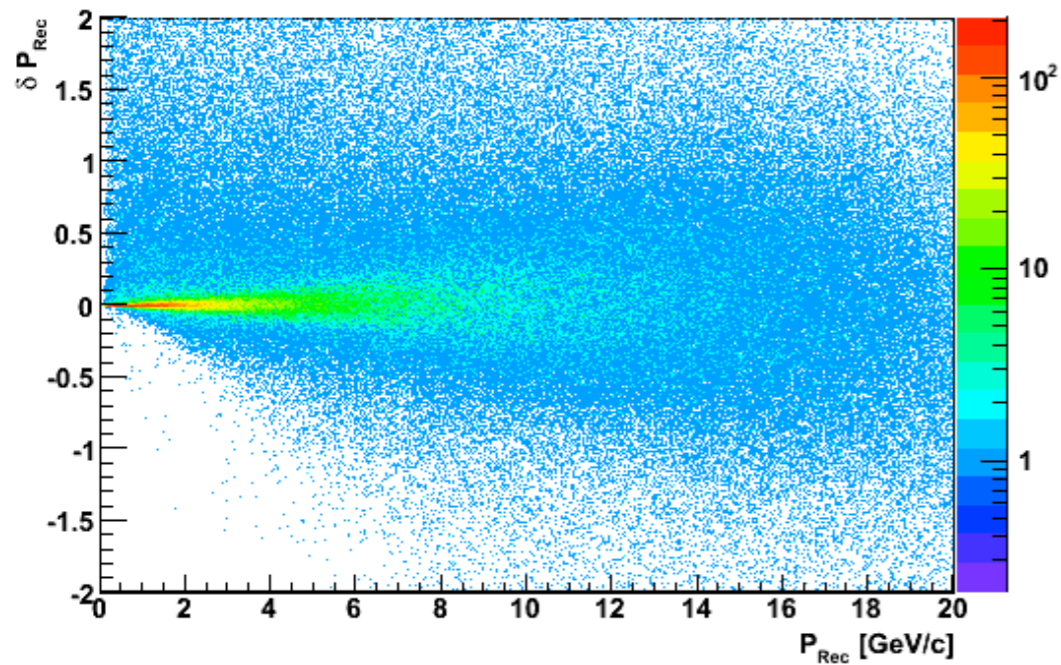
lineshape width



momentum resolution sigma



Momentum resolution



momentum resolution mean

