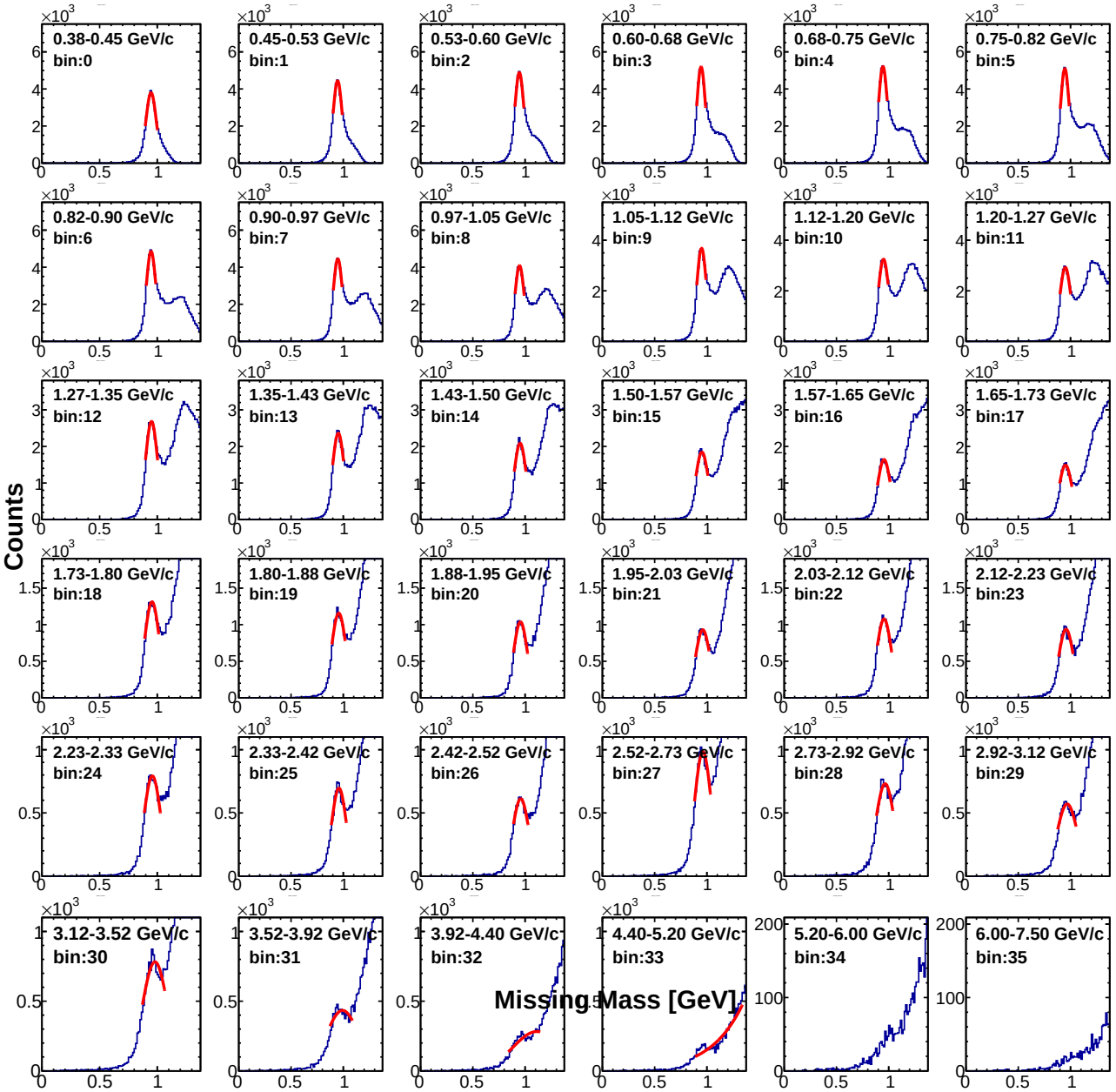
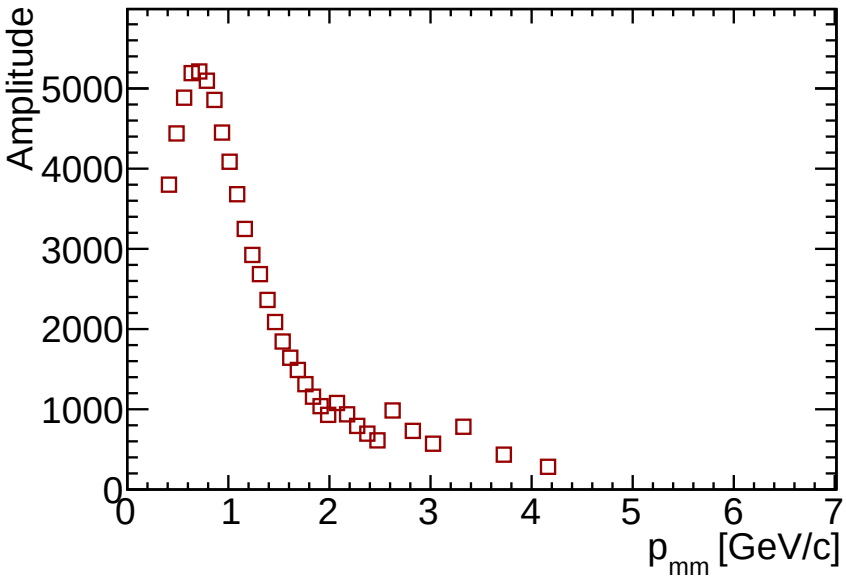
Fit the ‘Cores’ (Expected neutrons)

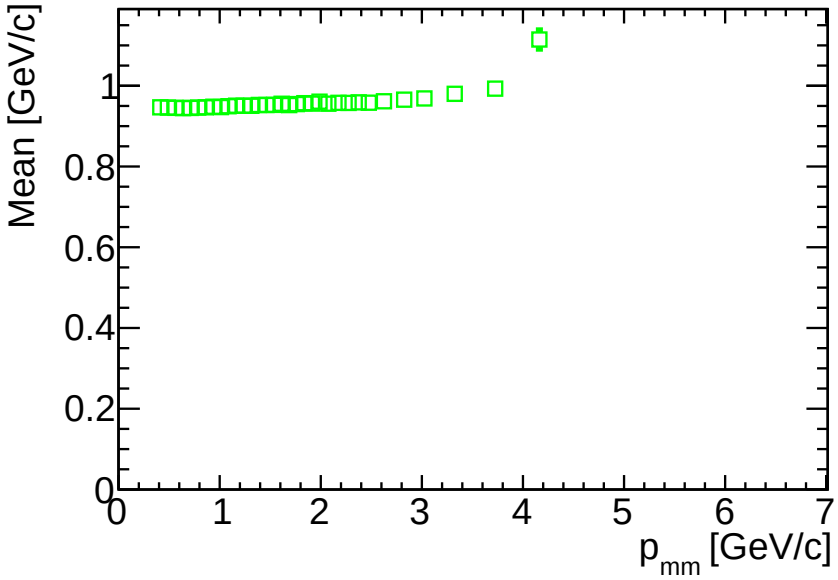


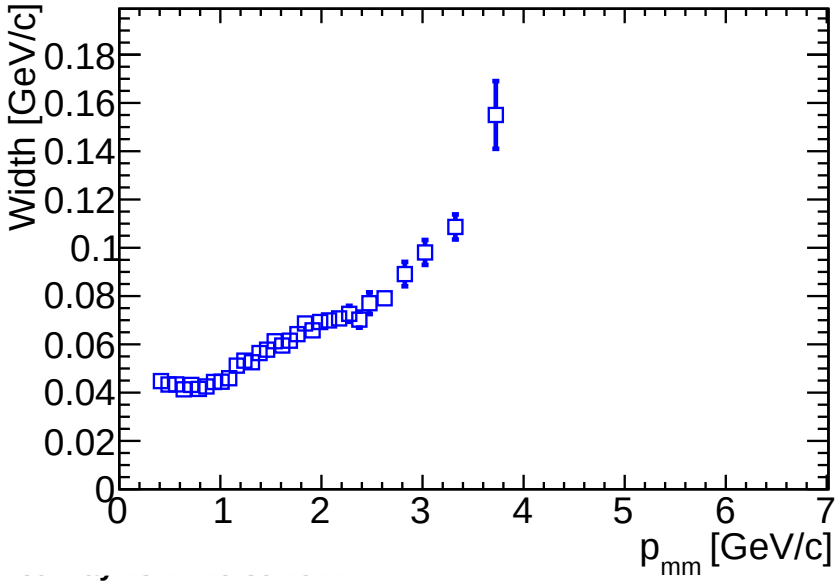
Data file:
data10p6nosidiscutv4.root

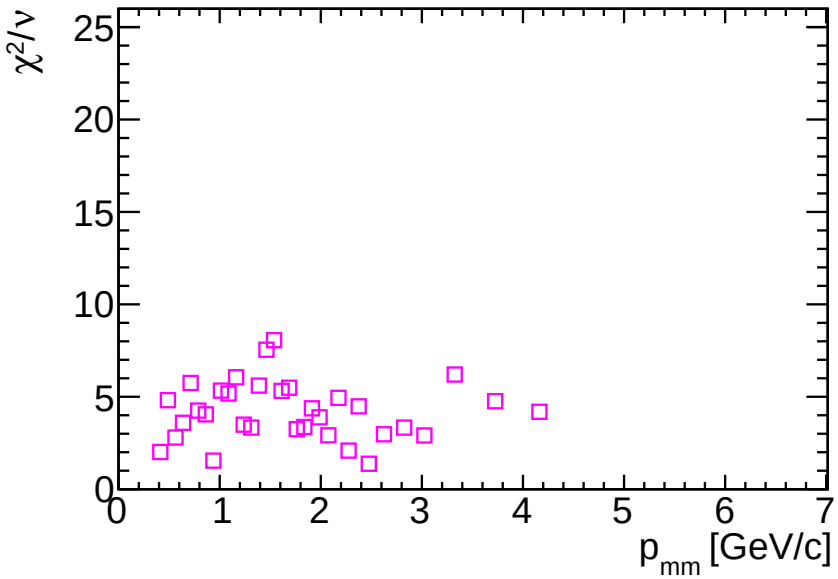
Histograms:
expMM_Pmmbin

Fit Results (Expected neutrons)

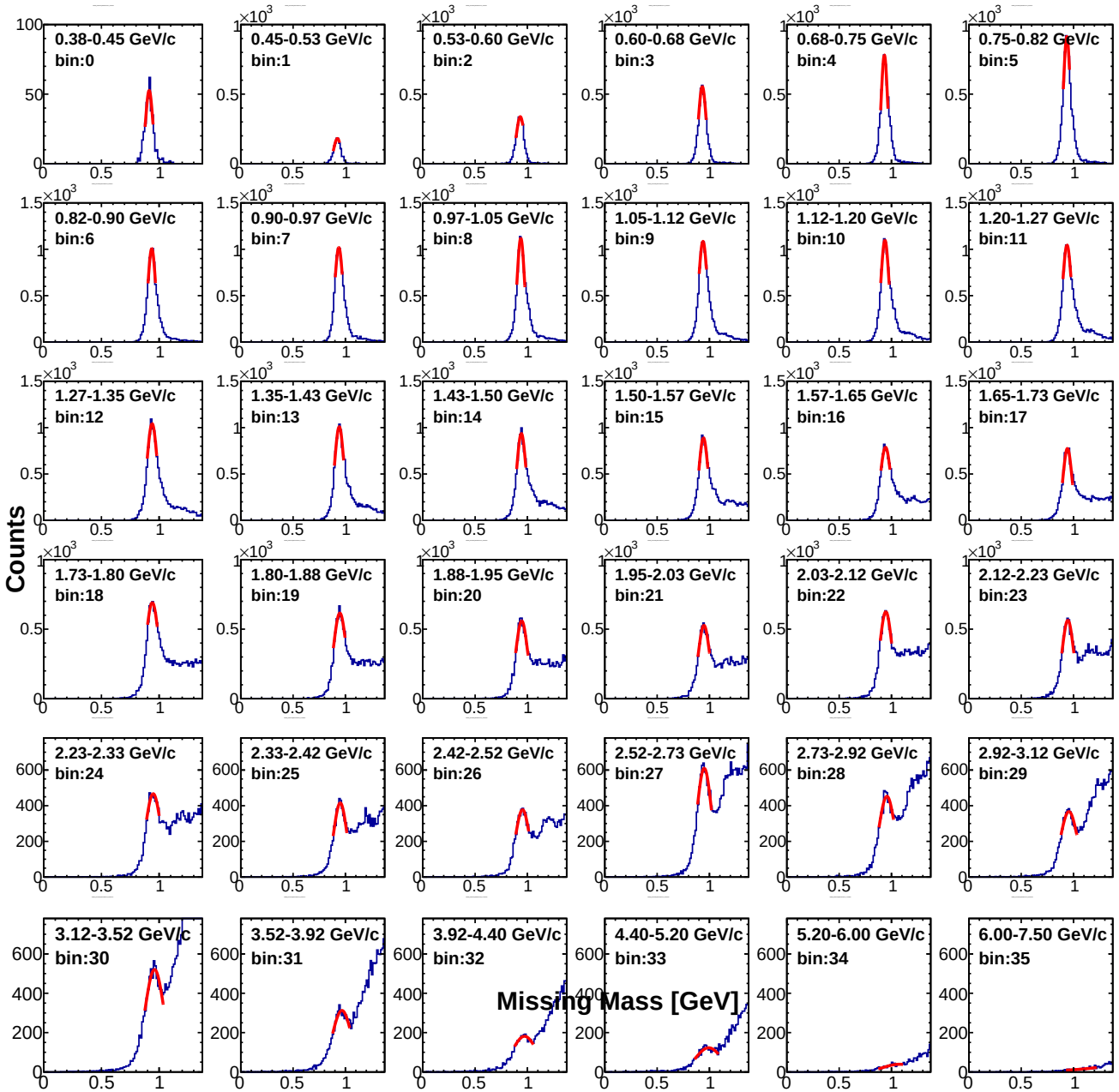








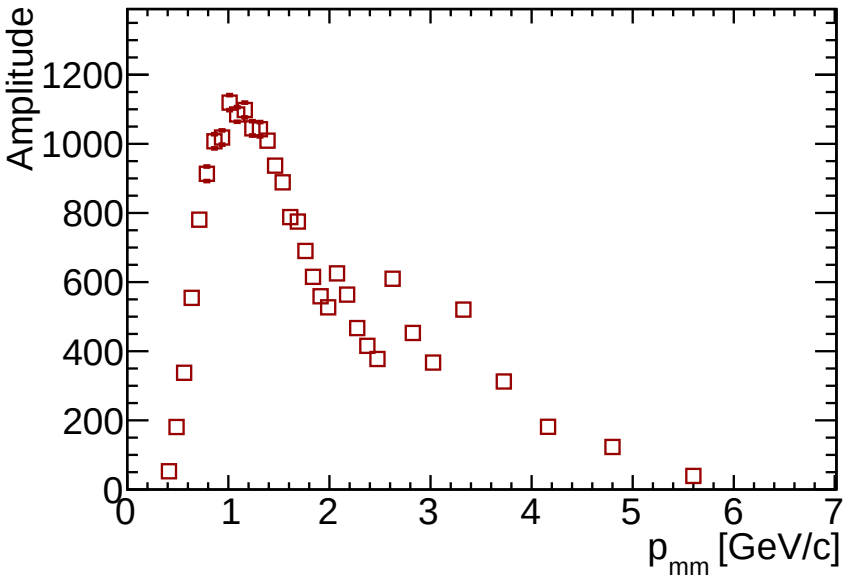
Fit the 'Cores' (Detected neutrons)

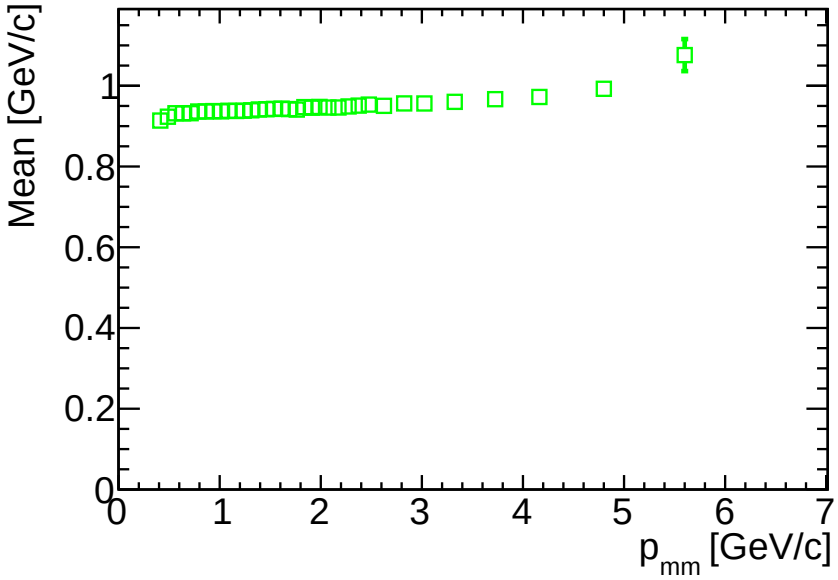


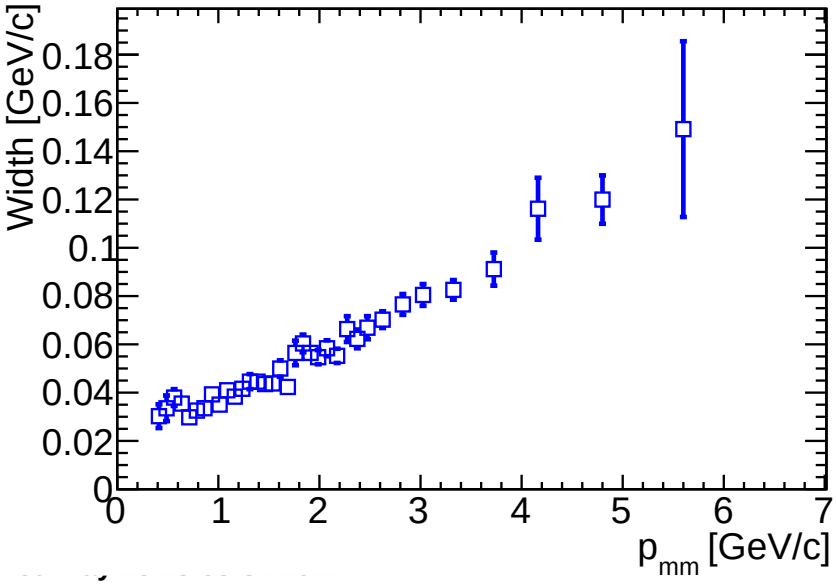
Data file:
data10p6nosidiscutv4.root

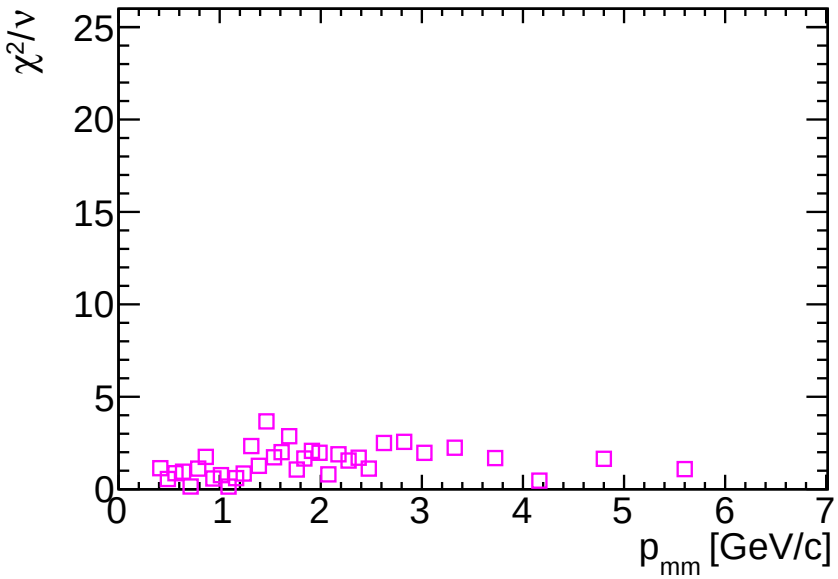
Histograms:
detMM_passdcxdcyMass2Rmincut_Pmmbin

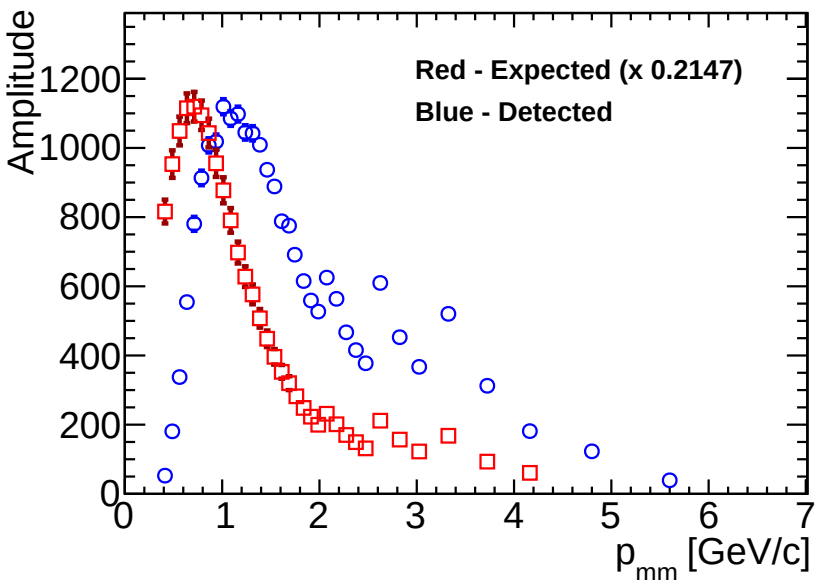
Fit Results (Detected neutrons)

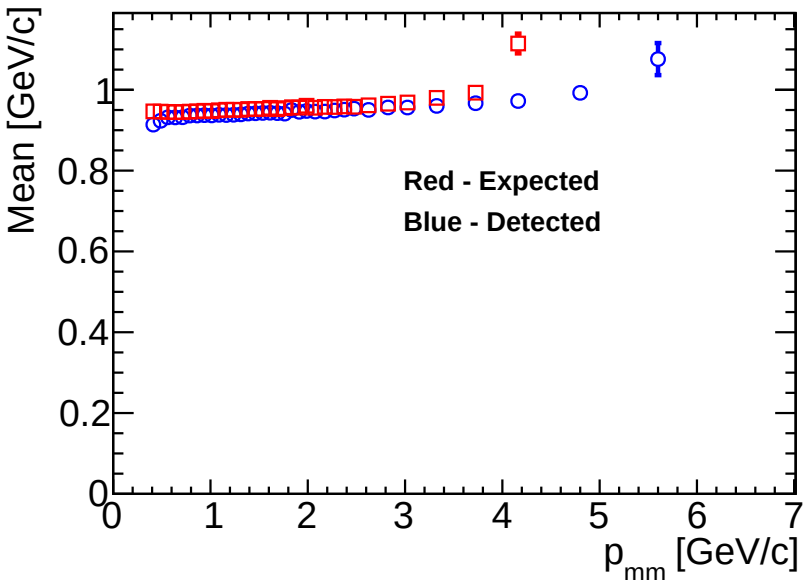


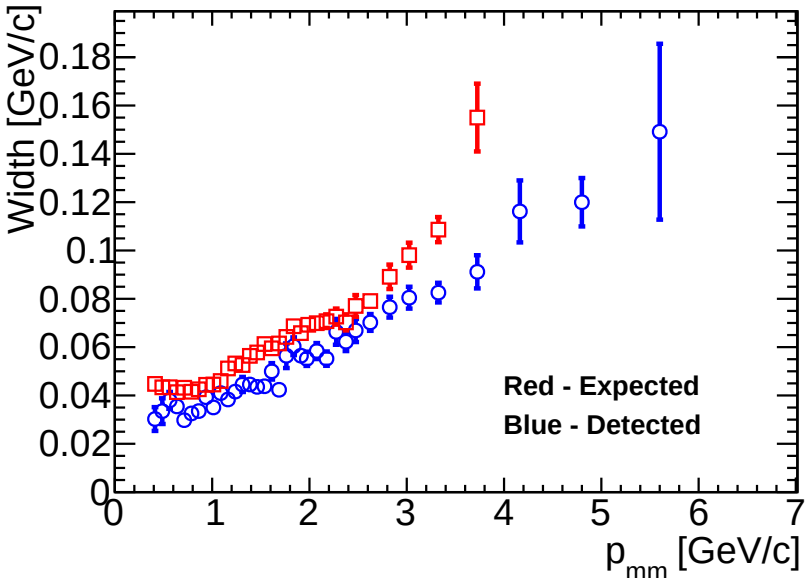


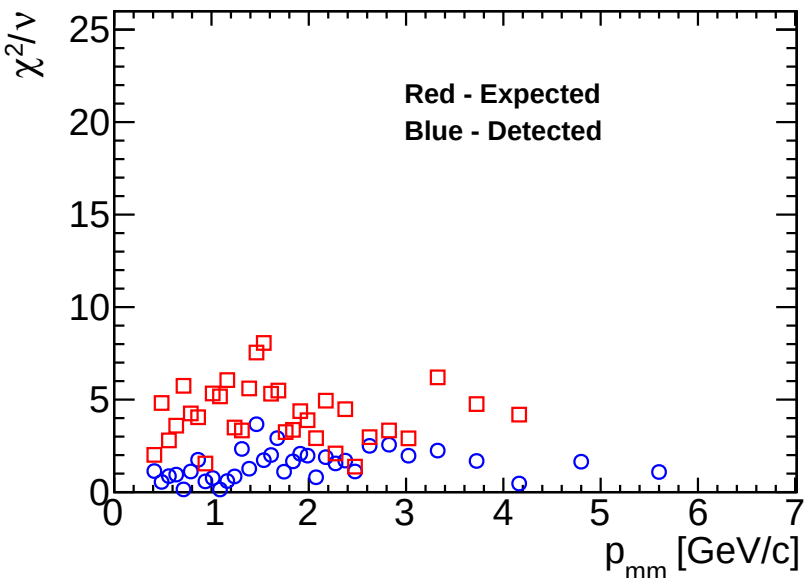





Amplitude
Red - Expected (x 0.2147)
Blue - Detected
p_mm [GeV/c]


Mean [GeV/c]
Red - Expected
Blue - Detected
p_mm [GeV/c]


Width [GeV/c]
Red - Expected
Blue - Detected
p_mm [GeV/c]


χ²/ν
Red - Expected
Blue - Detected
p_mm [GeV/c]

1. Compare integrated yield from detected and expected core fits.
2. Refit the expected neutron missing mass distributions with a fixed width and/or centroid from the detected neutron distributions.
3. Repeat with lower limit of fit range extended.
4. Study different choices of fitting function for the full distribution (i.e. Raue function) over a limited range. Full range?
5. Use SIDIS simulation results to validate what we've one so far.