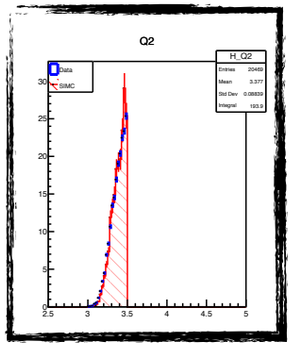
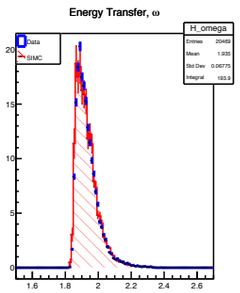
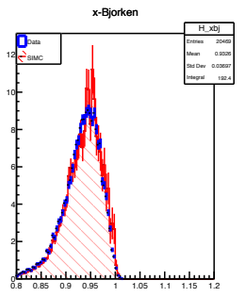
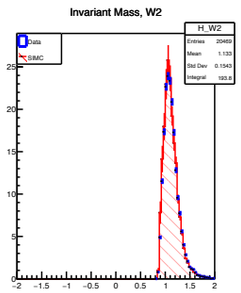
D(e,e’p) Q2 Cut Study

General Cuts:
|Em| < 40 MeV
HMS Delta: (-8,8) %
SHMS Delta: (-10, 22) %
|Ztar_Diff| < 2 cm
Coin. Time Cut: (11, 15) ns
HMS Collimator Cut

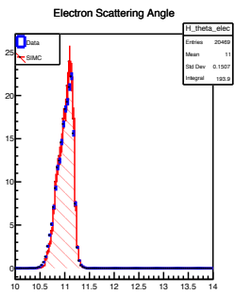


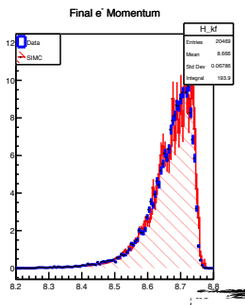


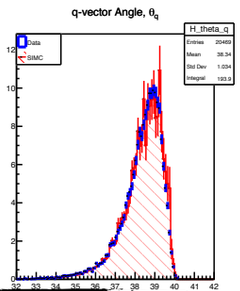


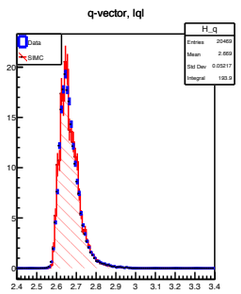


Q2: (3, 3.5)

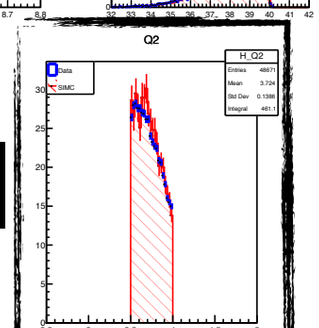


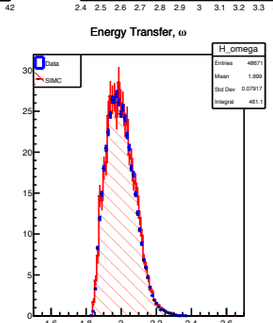


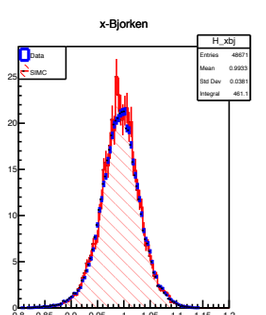


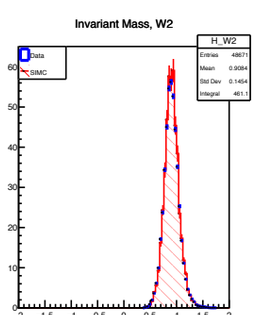


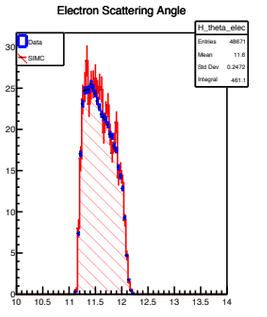
Q2: (3.5, 4)

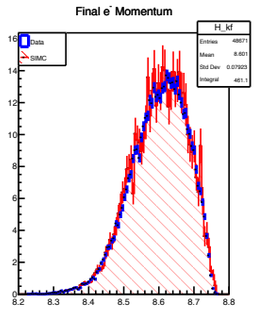


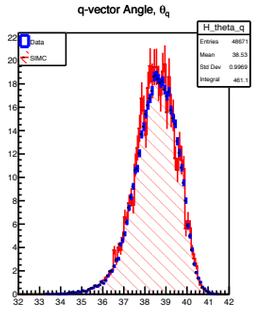


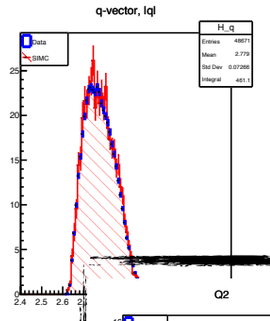




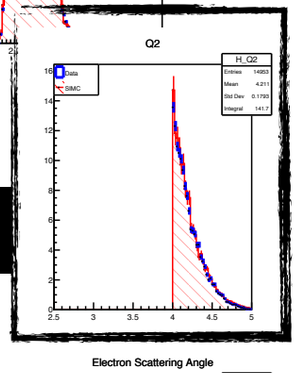


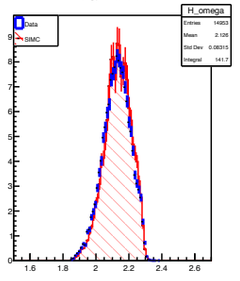


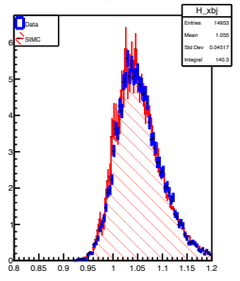


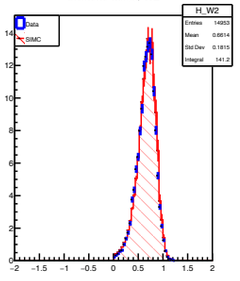


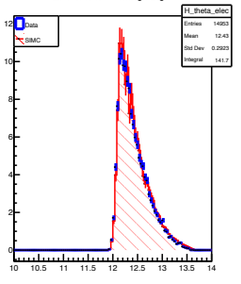
Q2: (4, 5)

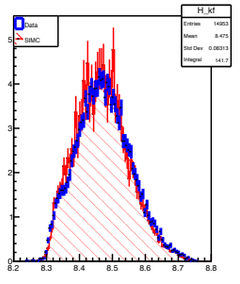


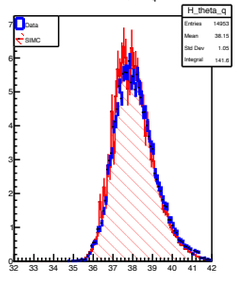


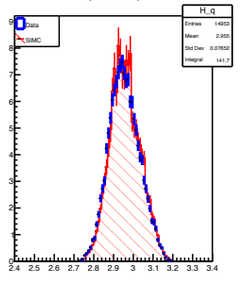




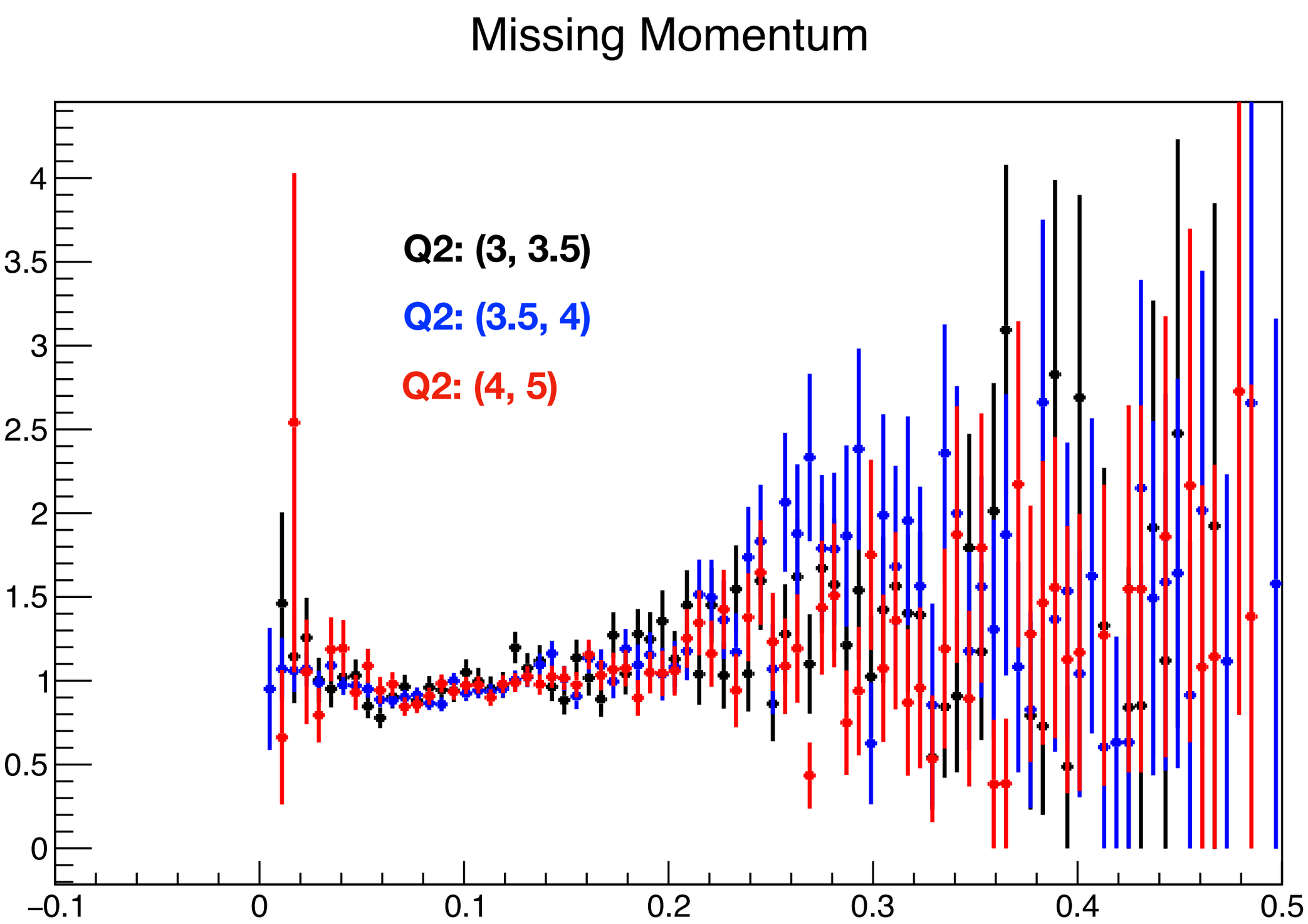






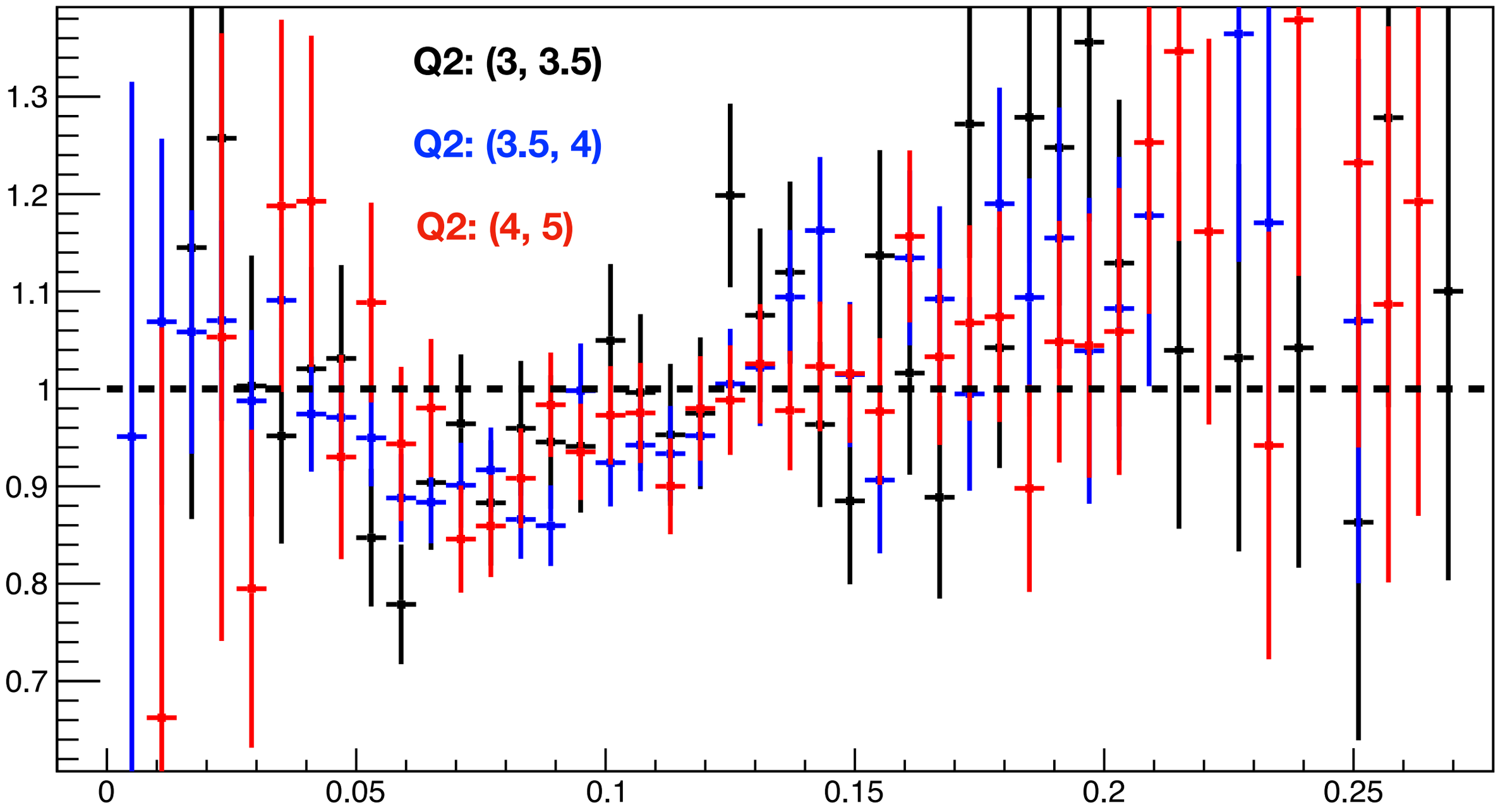


Missing Momentum Yield Ratio for different Q2 Bins



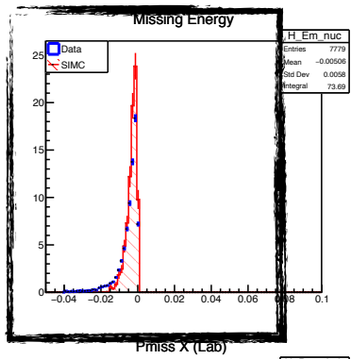
There does NOT seem to be much variation in shape in the Missing Momentum DATA/ SIMC Yield Ratio

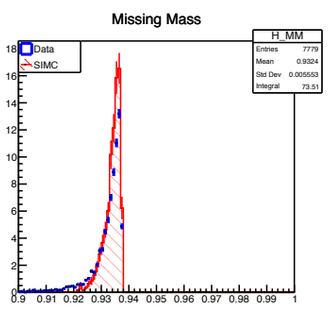
Missing Momentum Yield Ratio for different Q2 Bins: Zoomed In

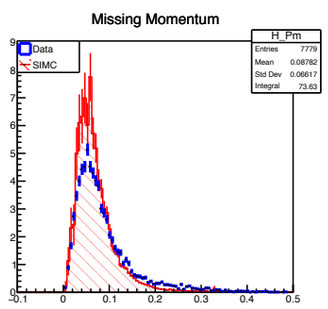


D(e,e’p) Em Cut Study

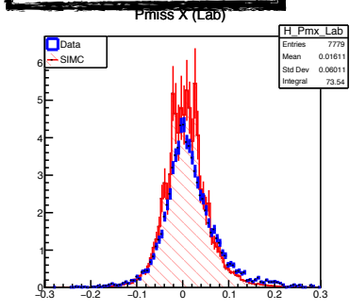
General Cuts:
HMS Delta: (-8,8) %
SHMS Delta: (-10, 22) %
|Ztar_Diff| < 2 cm
Coin. Time Cut: (11, 15) ns
HMS Collimator Cut

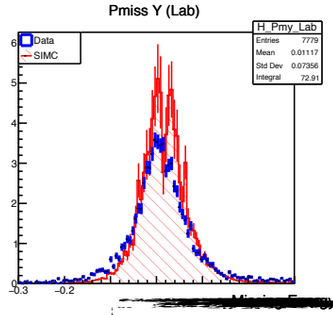


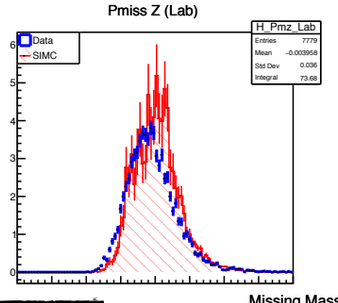




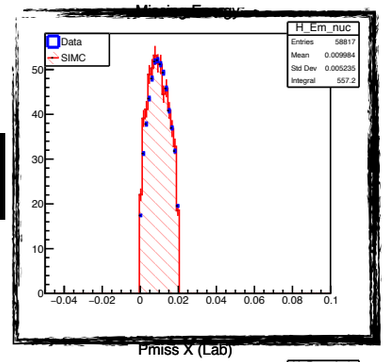
Emiss: (-40, 0) MeV

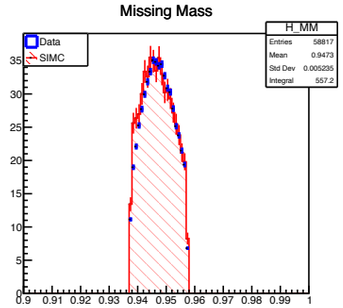


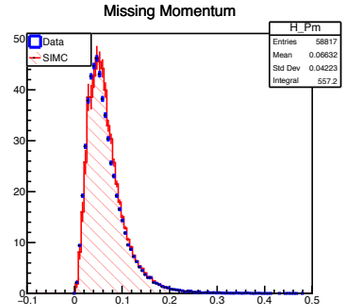


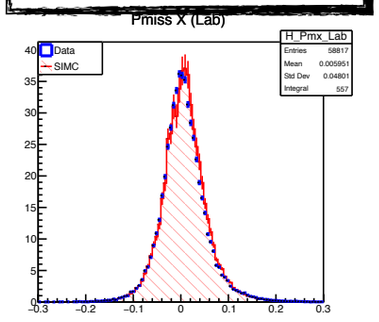


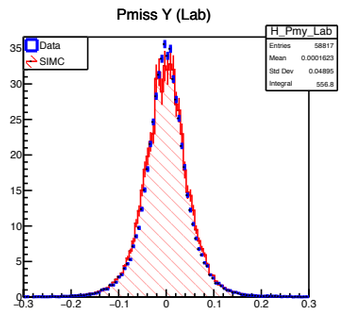
Emiss: (0, 20) MeV

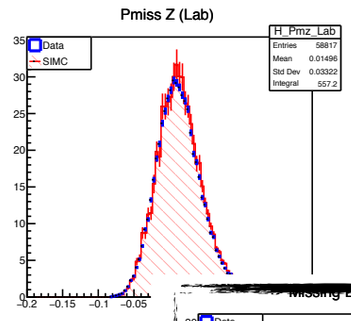




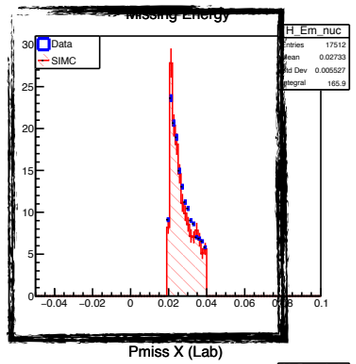


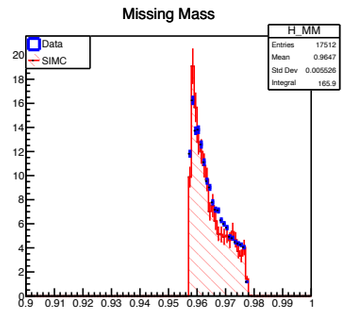


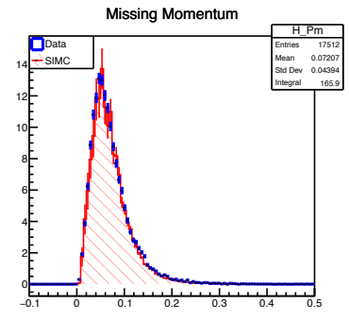


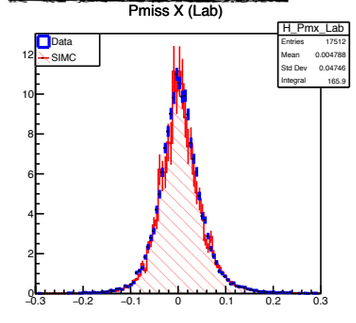


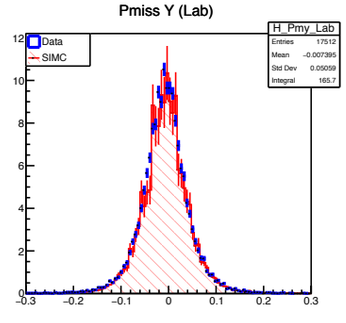
Emiss: (20, 40) MeV

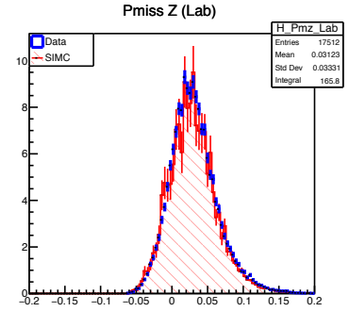




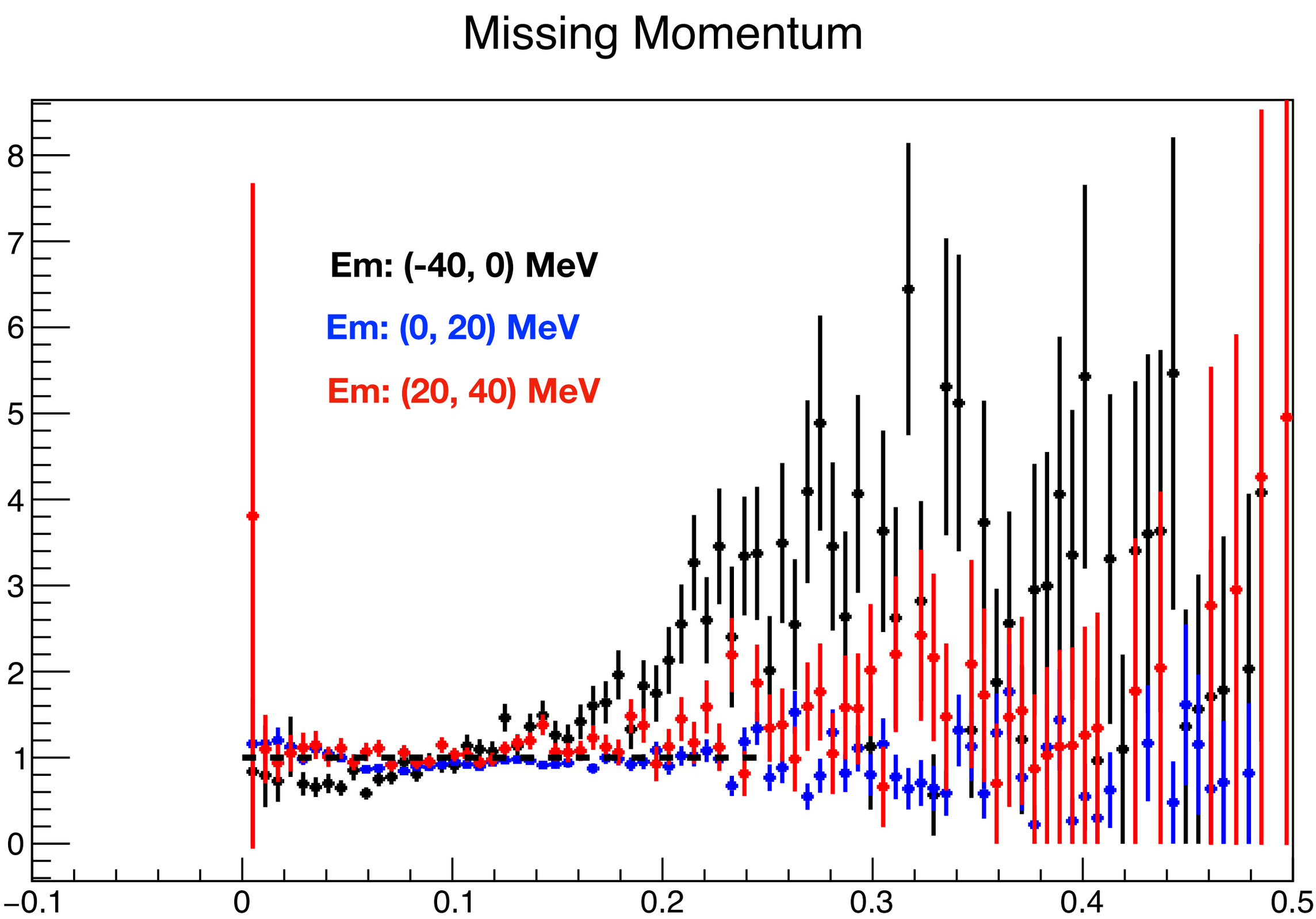




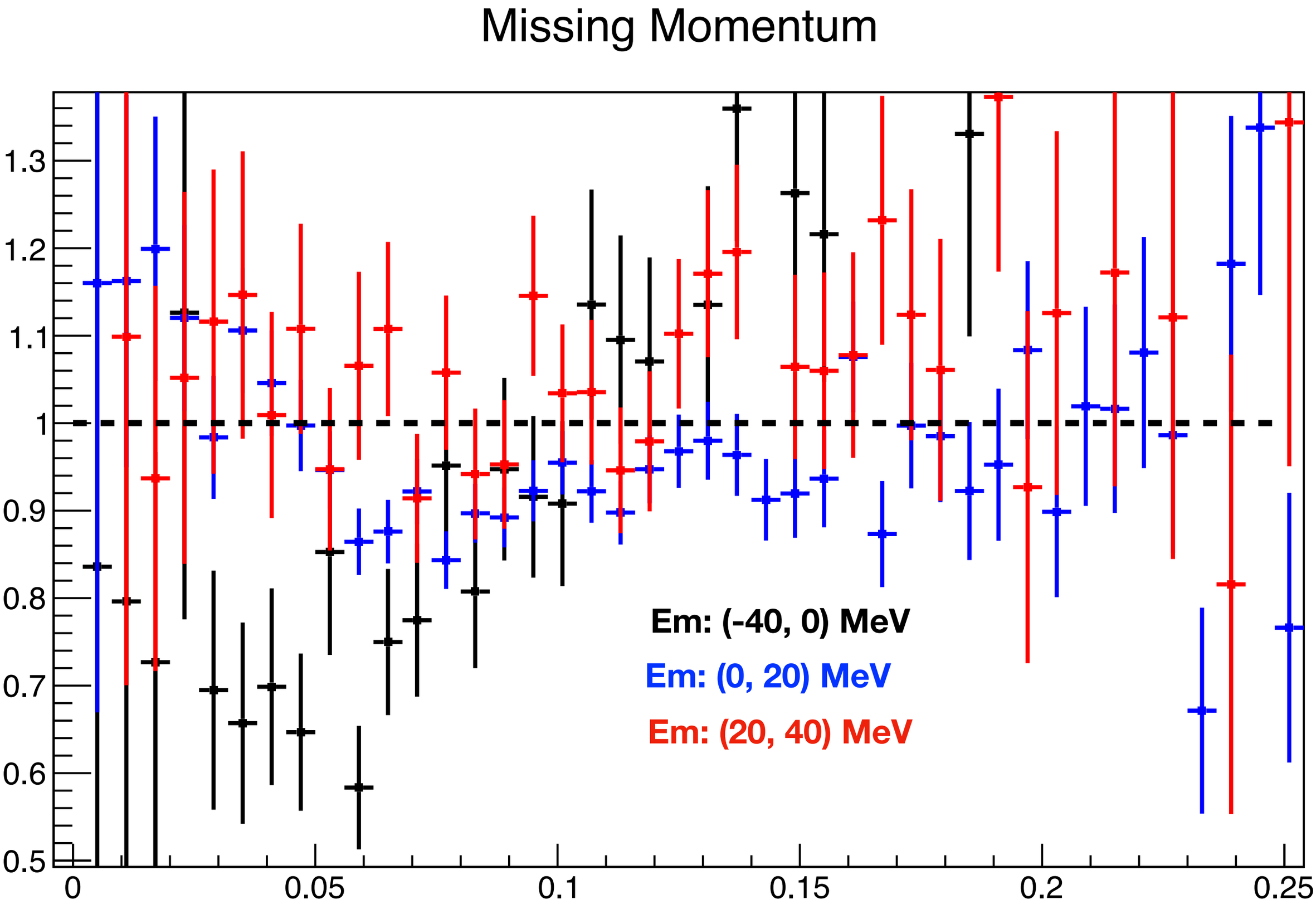




Missing Momentum Yield Ratio for different Em Bins



Missing Momentum Yield Ratio for different Em Bins: Zoomed In



The shape of the yield Ratio seems to change significantly with different Em bins.
Maybe a tighter missing energy cut is the way to go?