# D(e,e'p) SHMS Delta Cuts Study

**General Cuts:** 

| Em | < 40 MeV

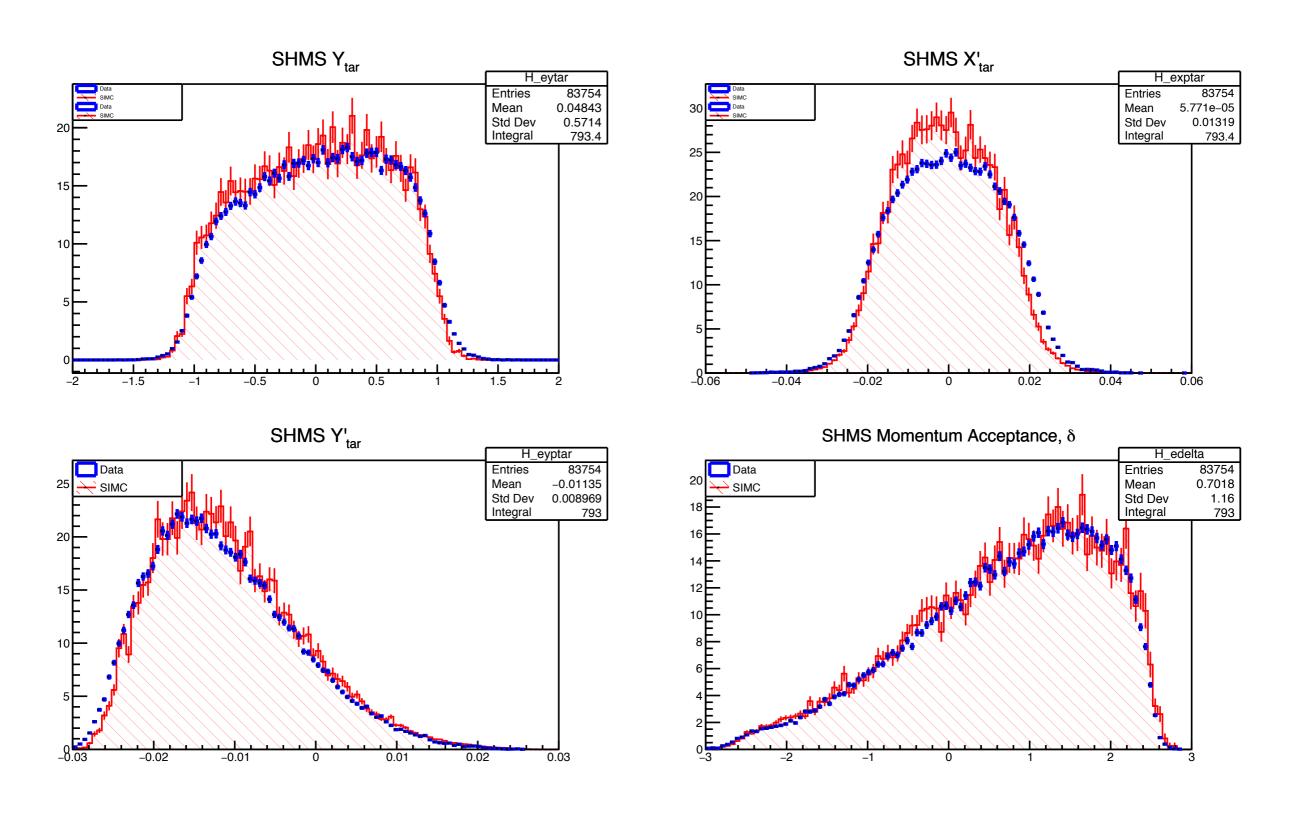
HMS Delta: (-8,8)

Coin. Time: (11, 15)

| HMS Ztar\_Difference | < 2 cm

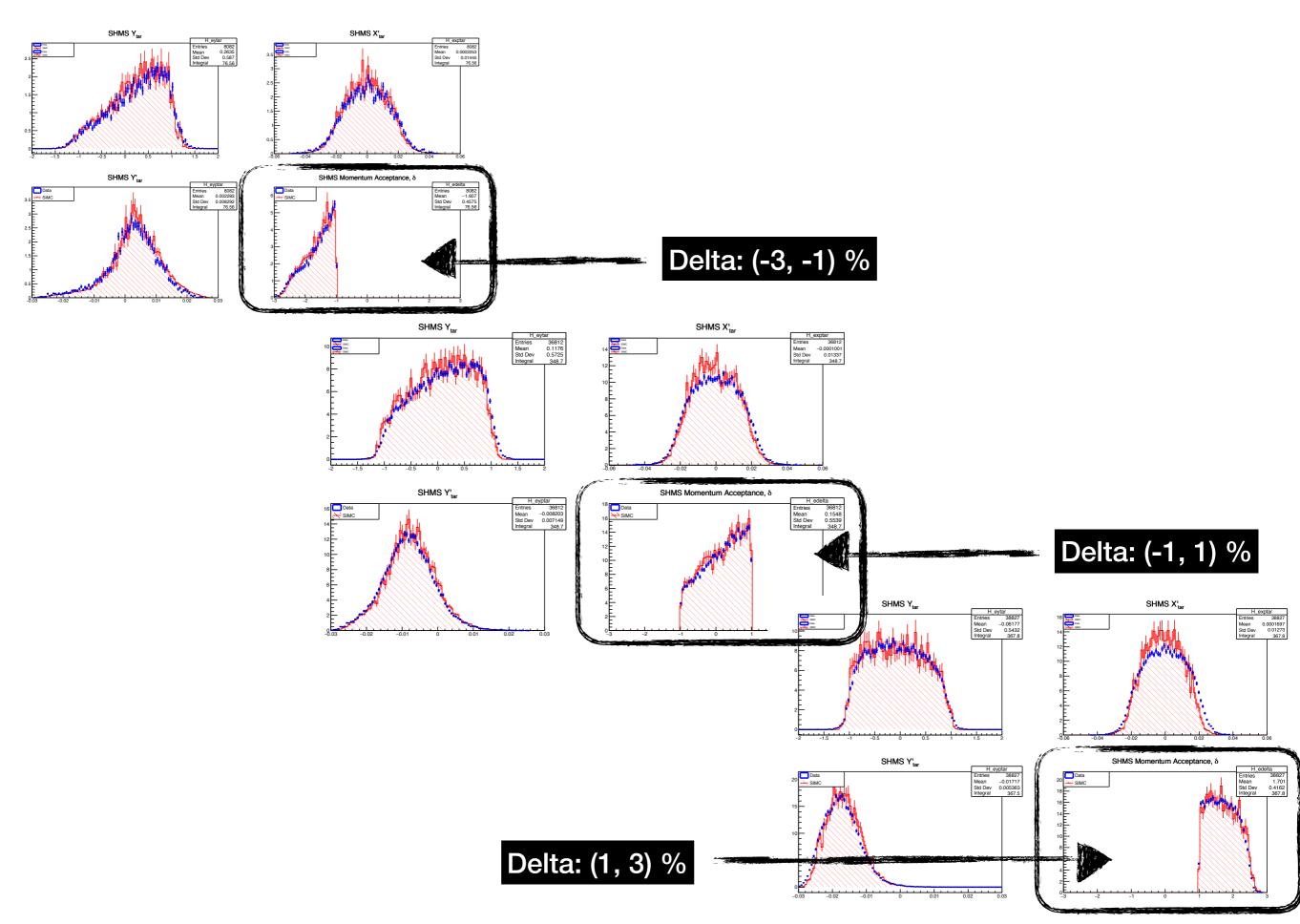
**HMS Collimator Cut** 

#### STUDY PART 1: Vary Delta in 2% Bins to Study Pm Yield Ratio

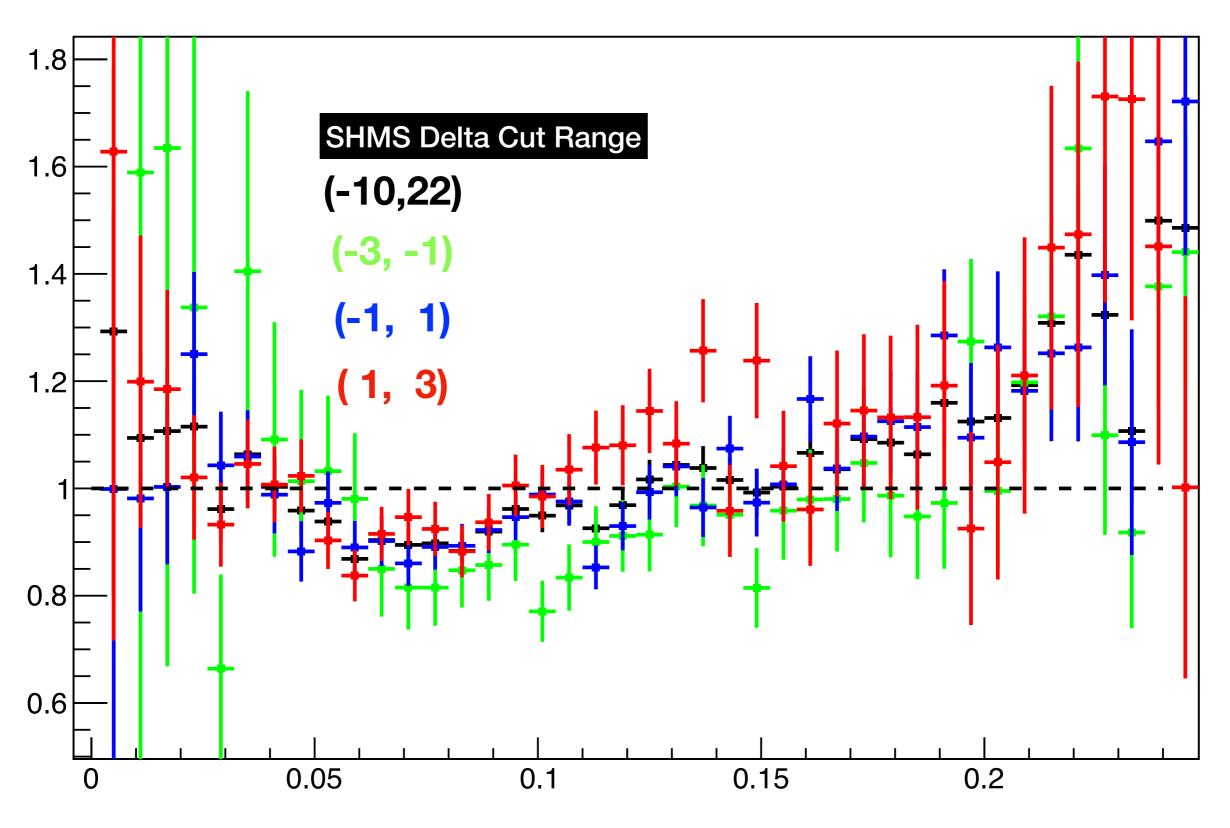


Full Range of Delta is (-3,3) % for the D(e,e'p) 80 MeV Setting

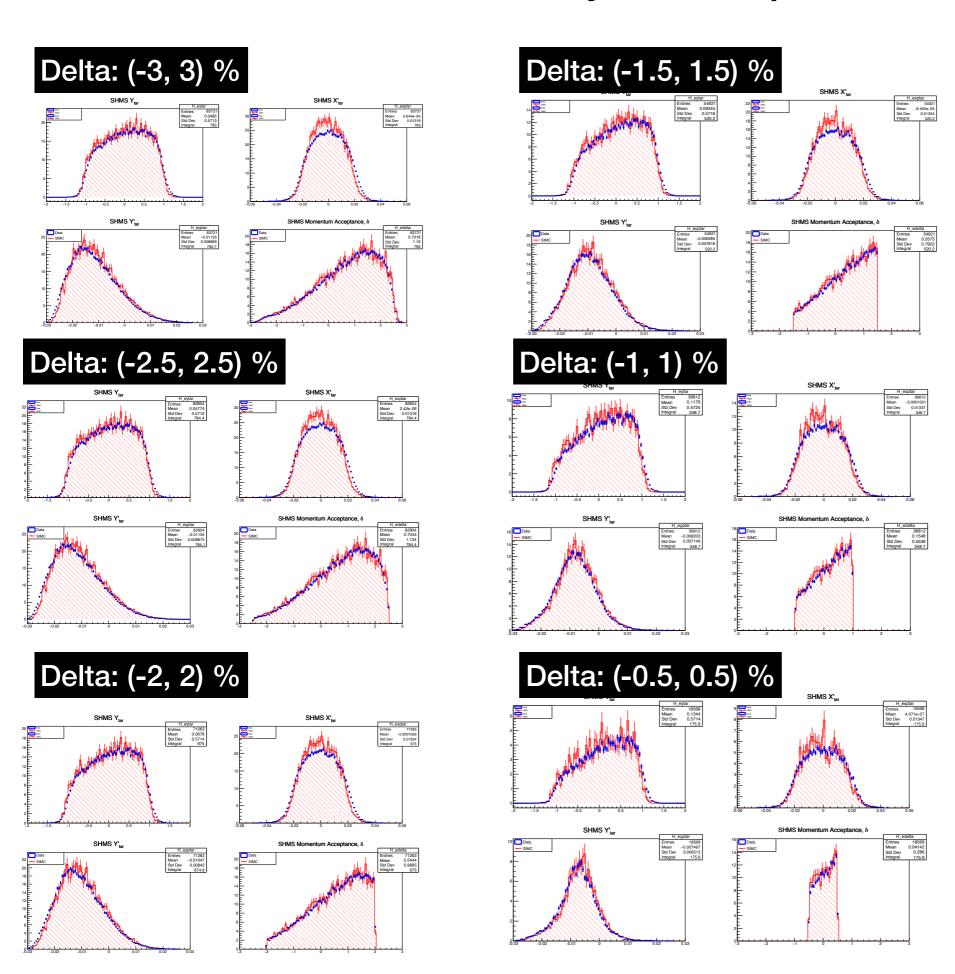
#### STUDY PART 1: Vary Delta in 2% Bins to Study Pm Yield Ratio



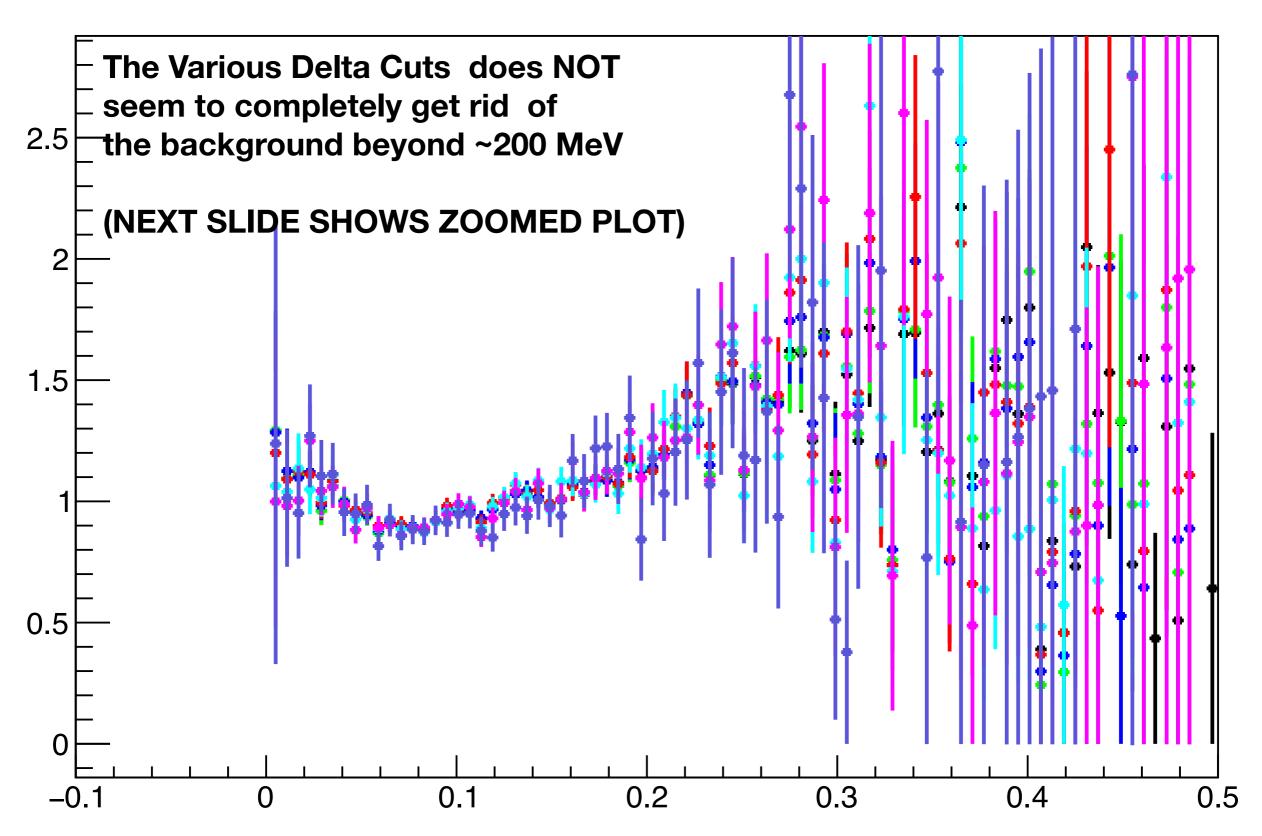
### STUDY PART 1: Vary Delta in 2% Bins to Study Pm Yield Ratio Missing Momentum



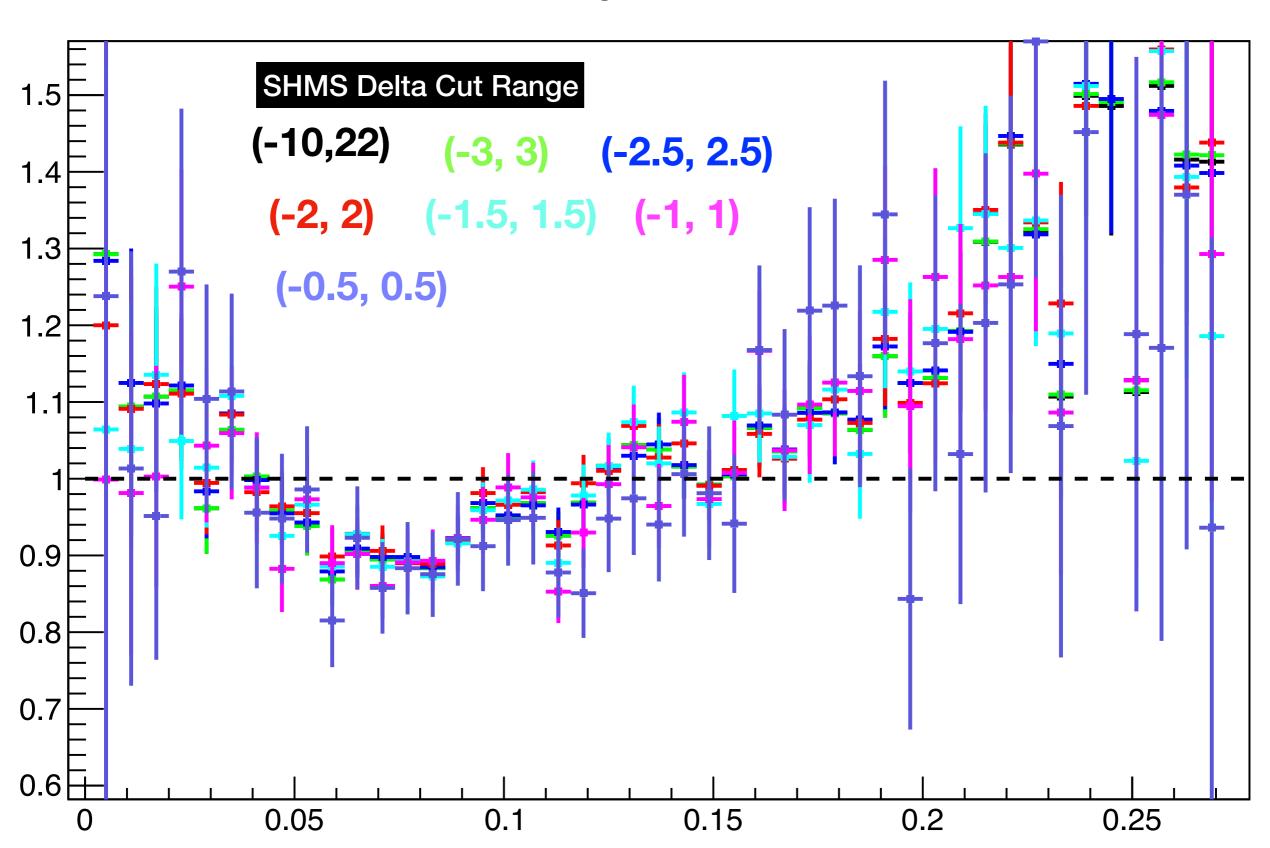
#### **STUDY PART 2: Vary Delta in Equal Absolute Range**



## STUDY PART 2: Vary Delta in Equal Absolute Range Missing Momentum



### STUDY PART 2: Vary Delta in Equal Absolute Range ( ZOOMED IN ) Missing Momentum



#### **SUMMARY:**

Even though the various SHMS delta cut ranges did NOT seem to completely get rid of background for Pm >~200 MeV, the yield ratios do seem stable and within uncertainty of each other with respect to the various cuts