

Compton run Data Analysis

PrimeX-II weekly meeting

Li Ye

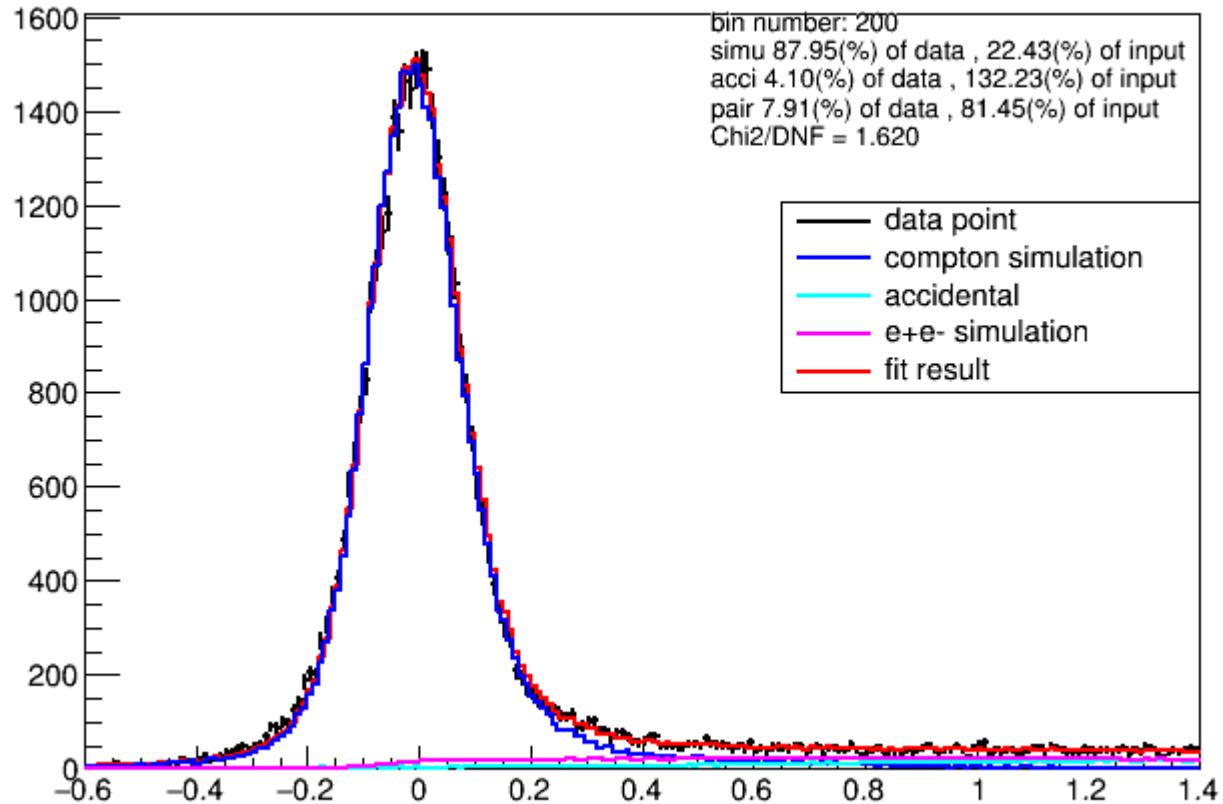
Mississippi State University

2017-05-12

- Use all accidental data as fitting histogram instead of Echannel's
- Use all pair production data as fitting histogram instead of Echannel's

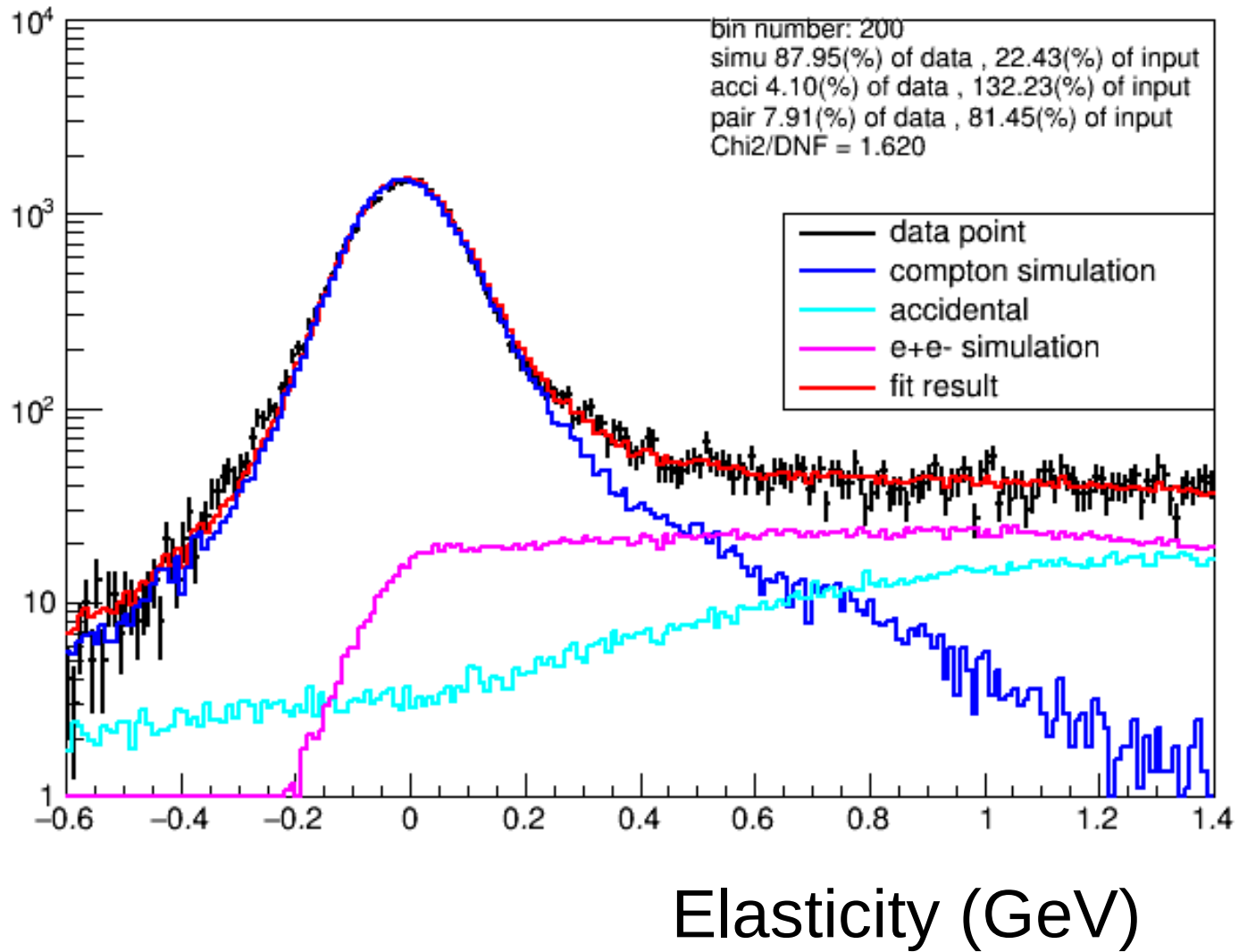
$$\text{Elas} = E_{\text{beam}} - E_1 - E_2$$

5_Target_E1

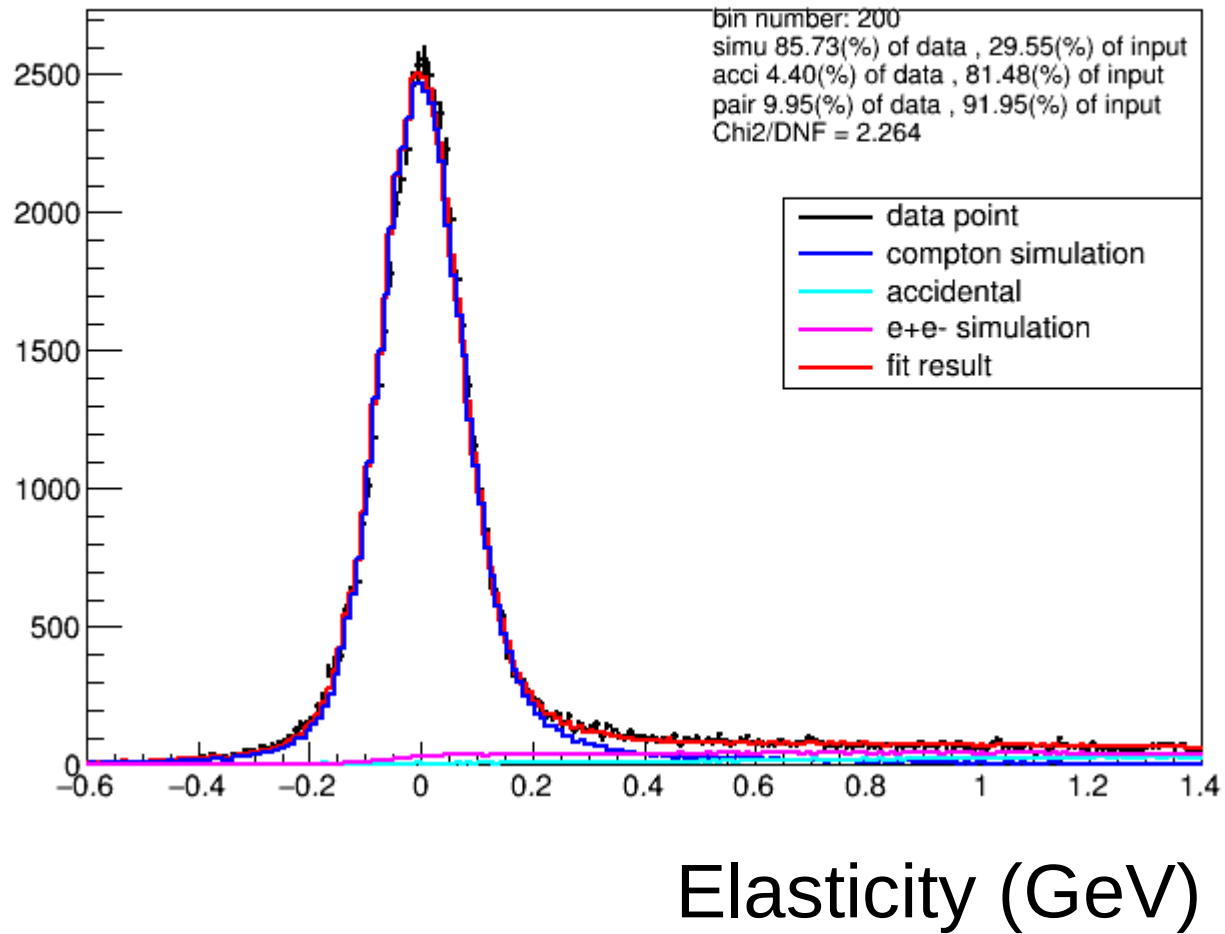


Elasticity (GeV)

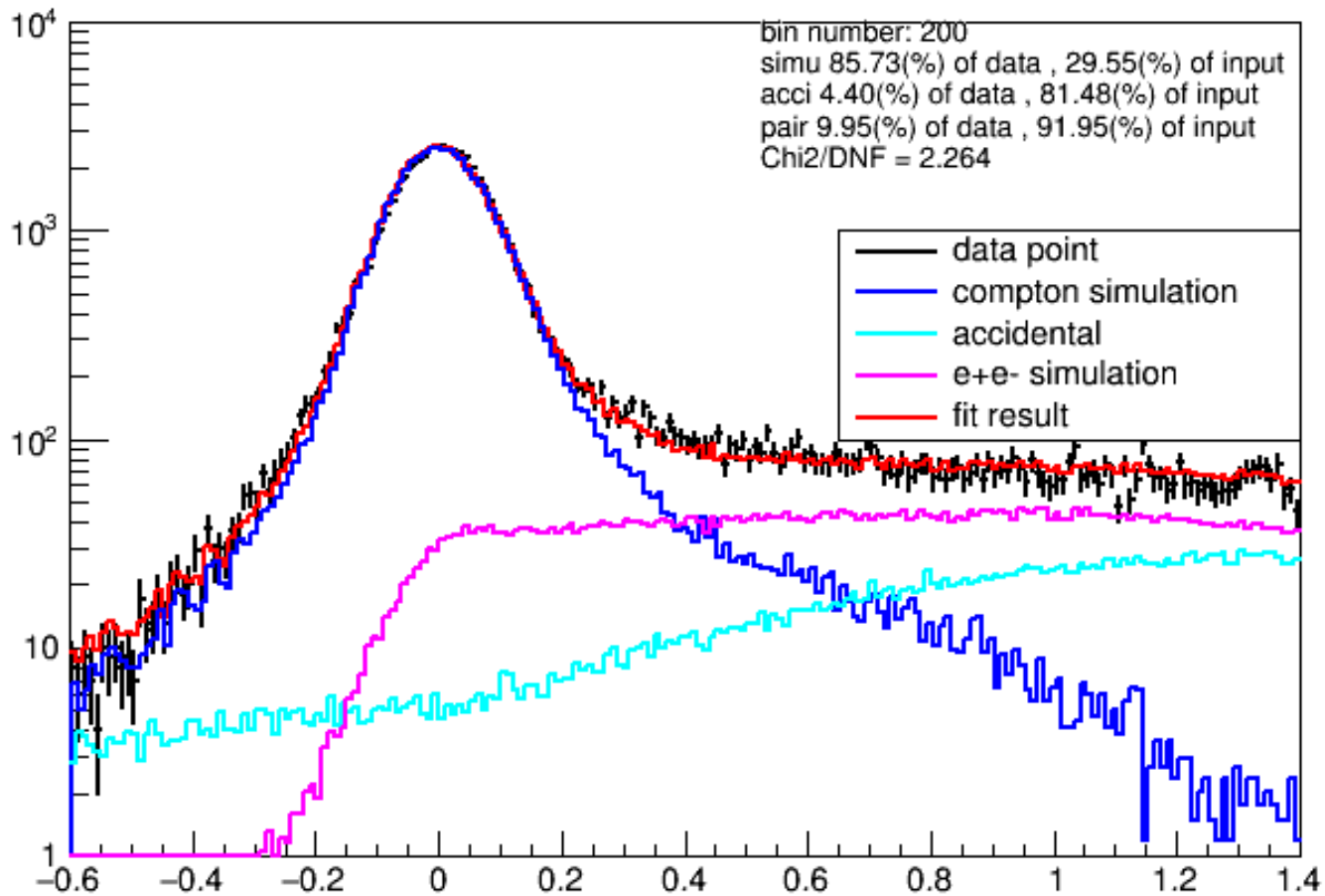
5_Target_E1



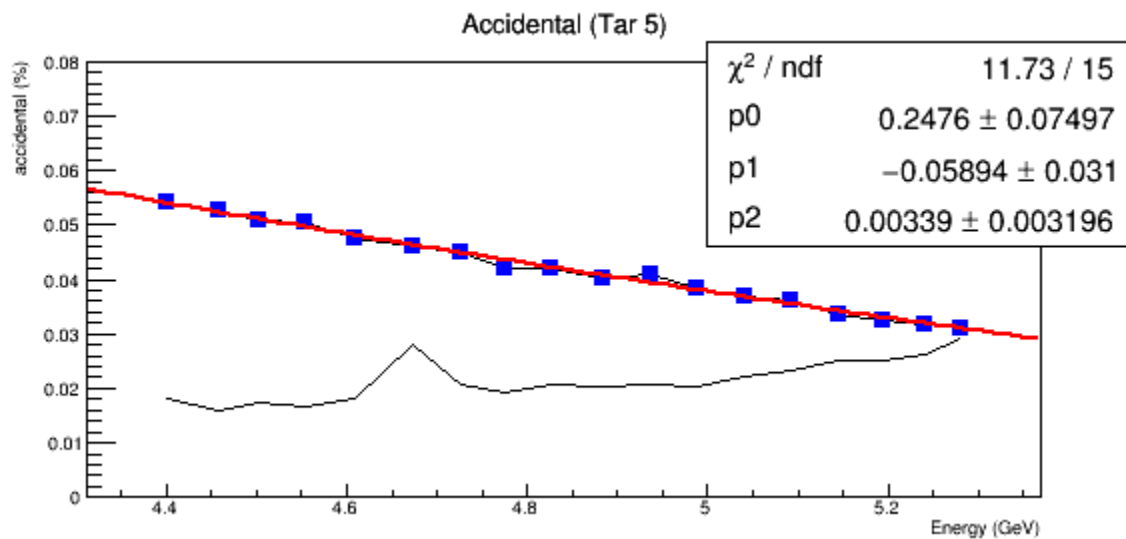
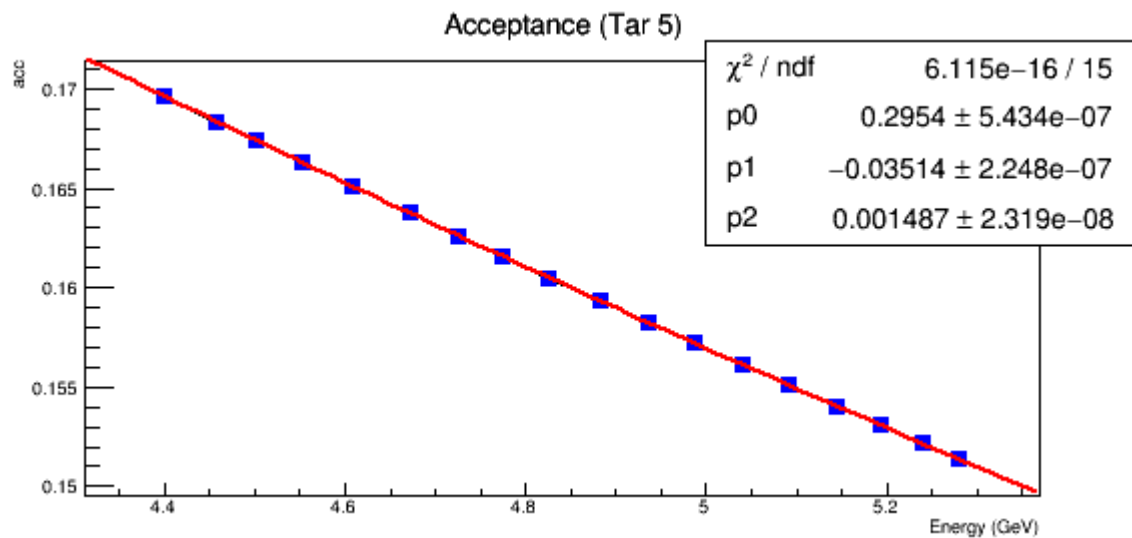
5_Target_E18

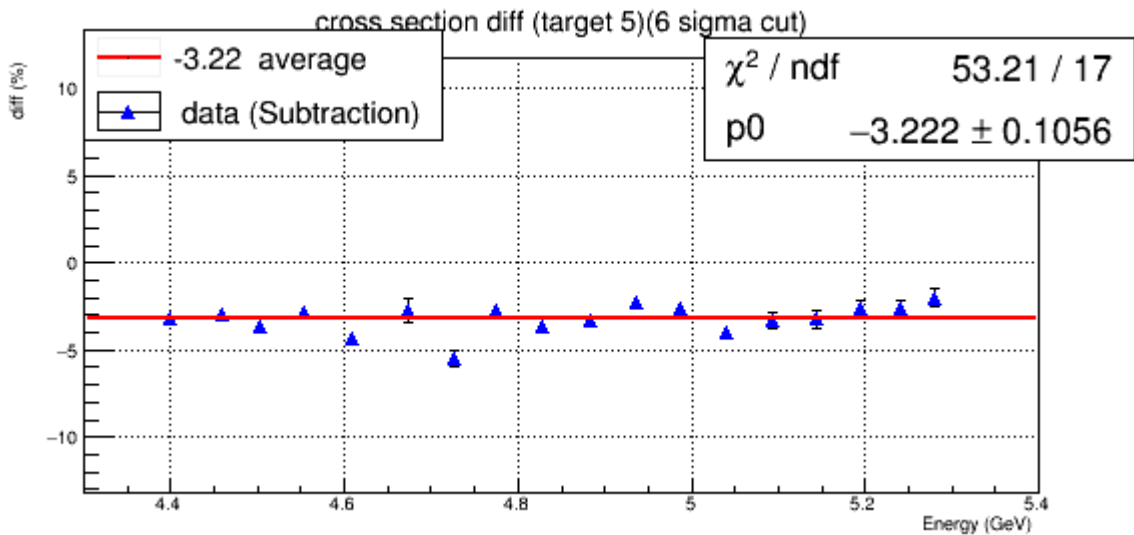
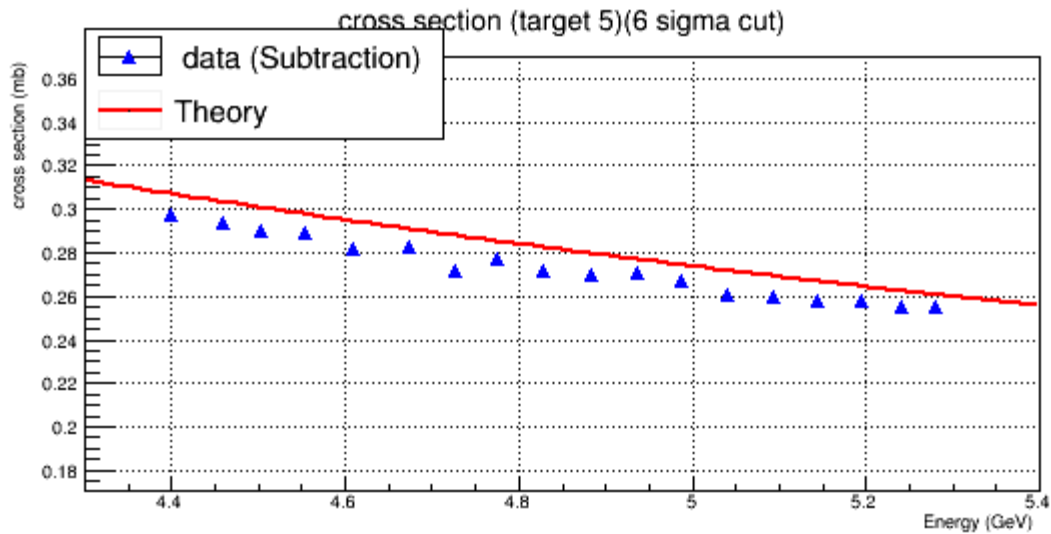


5_Target_E18

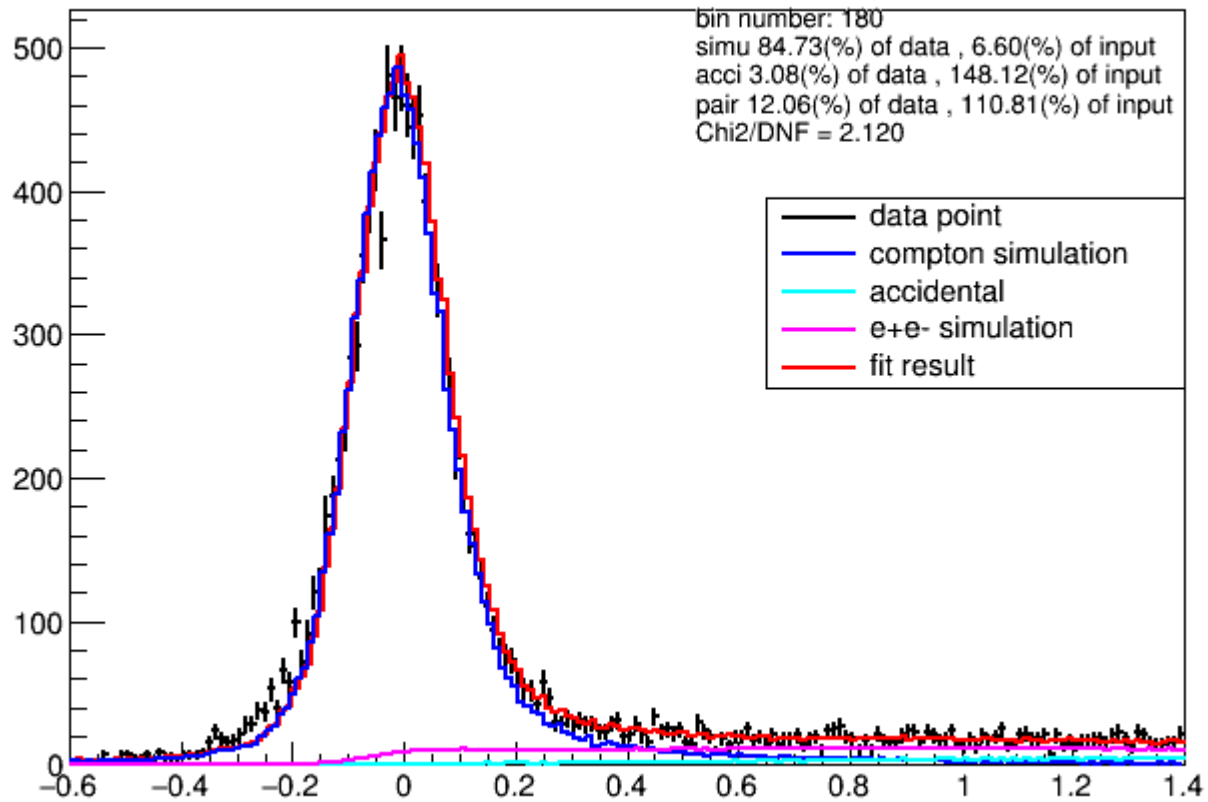


Elasticity (GeV)

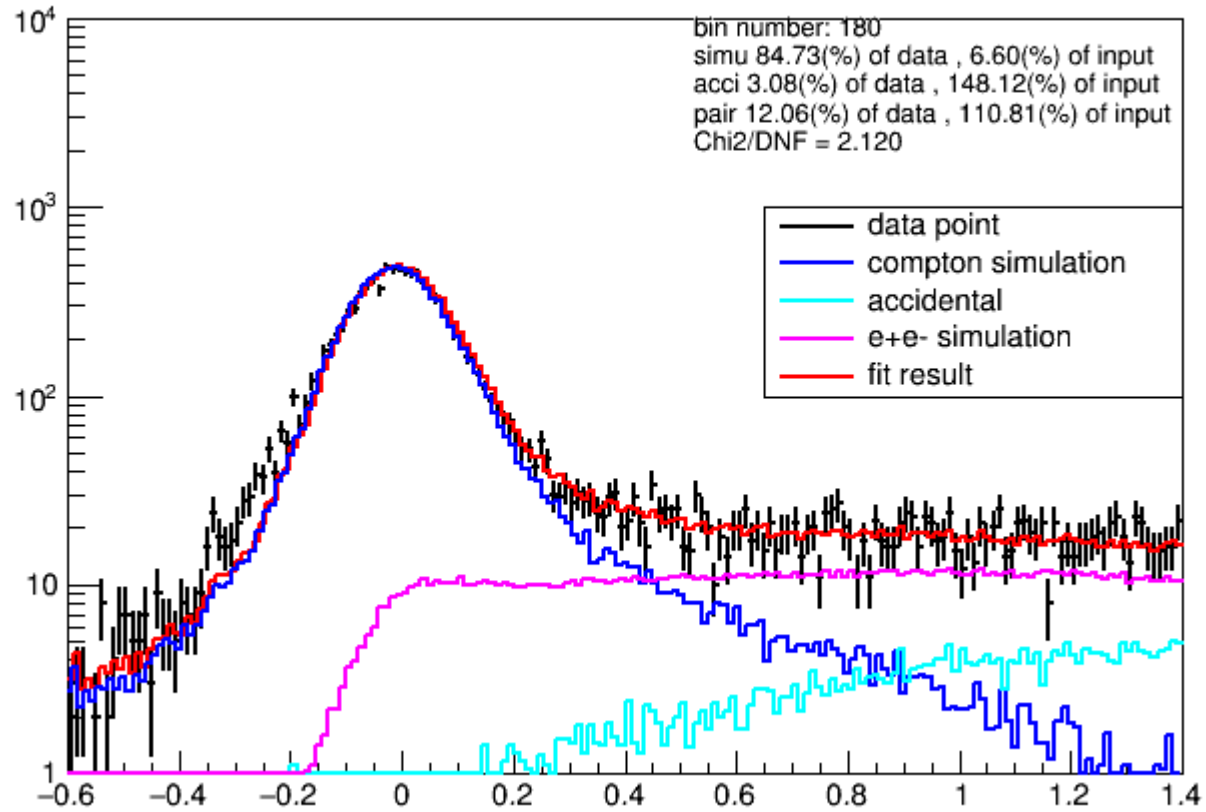


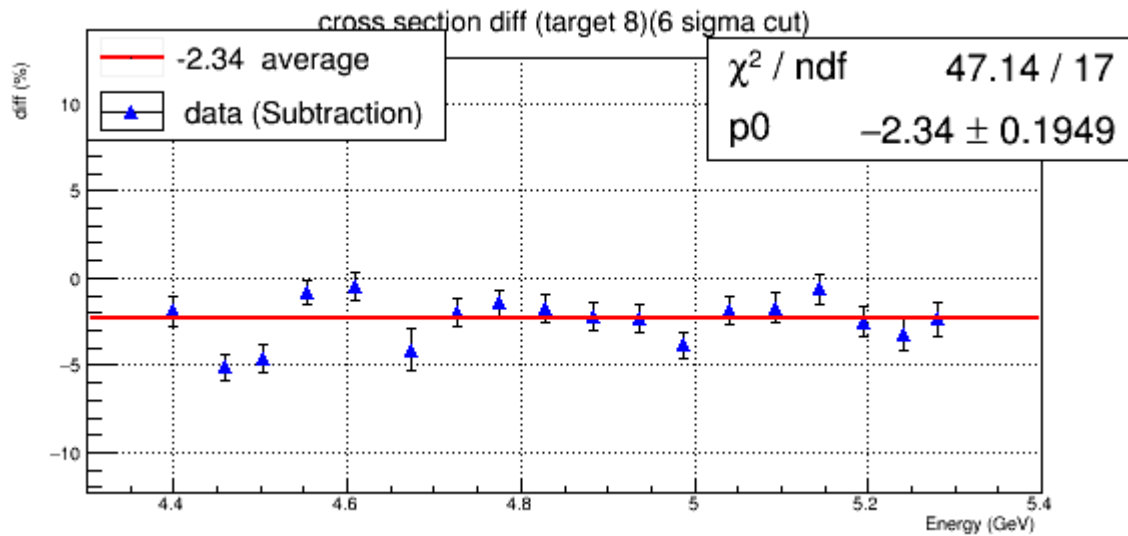
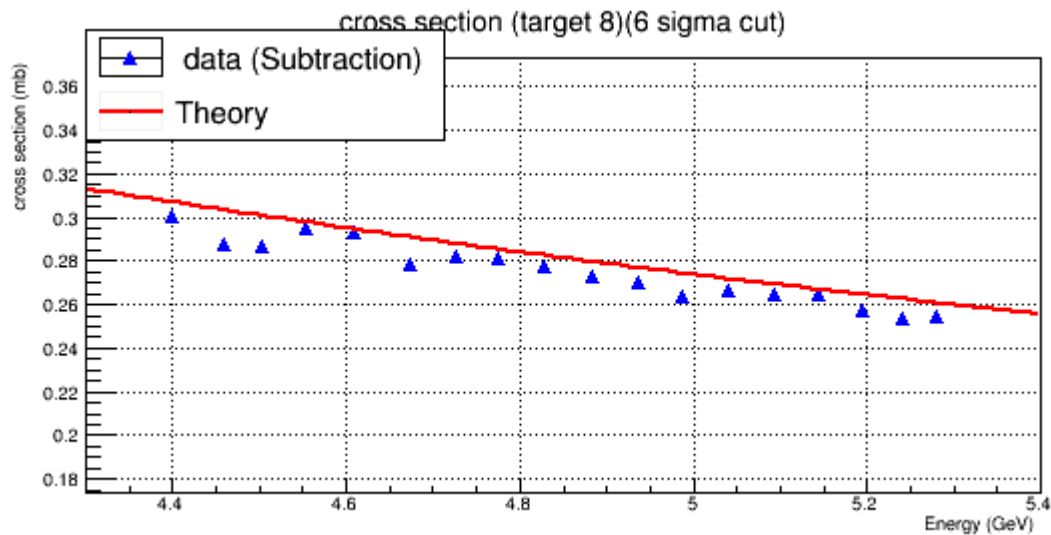


8_Target_E1



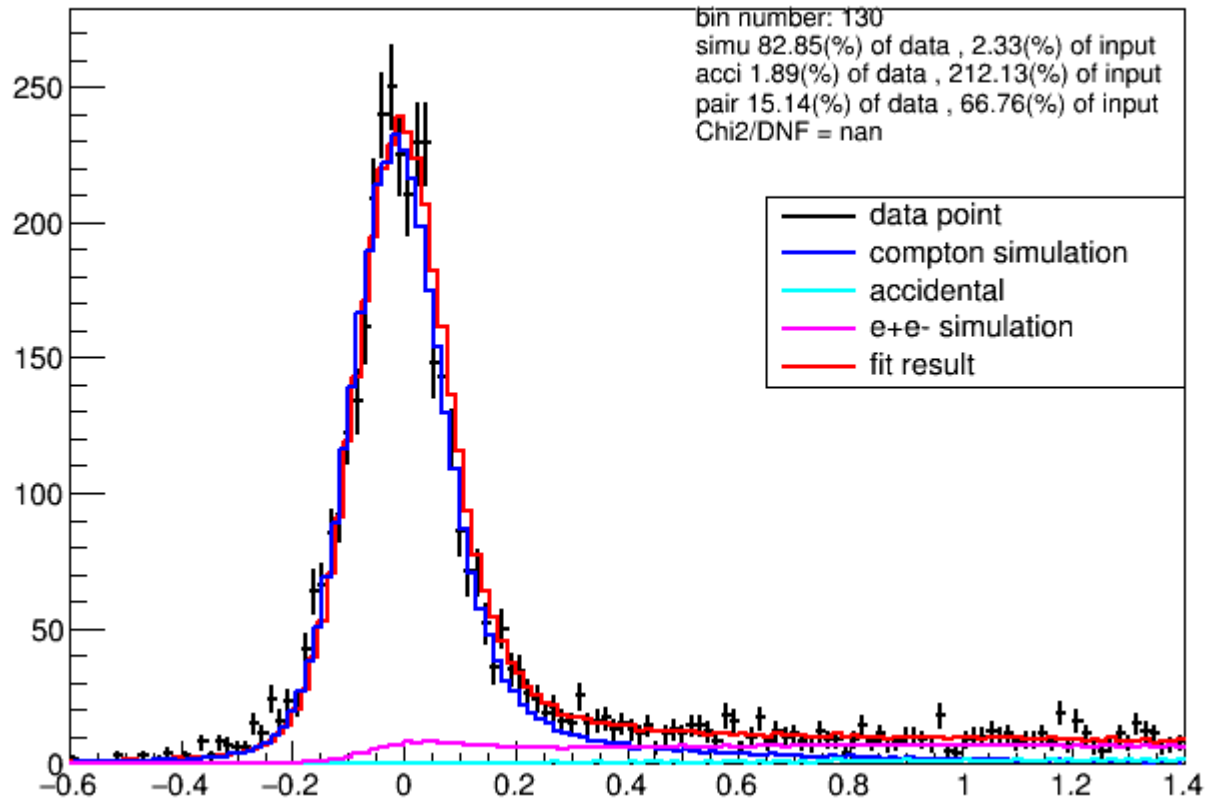
8_Target_E1





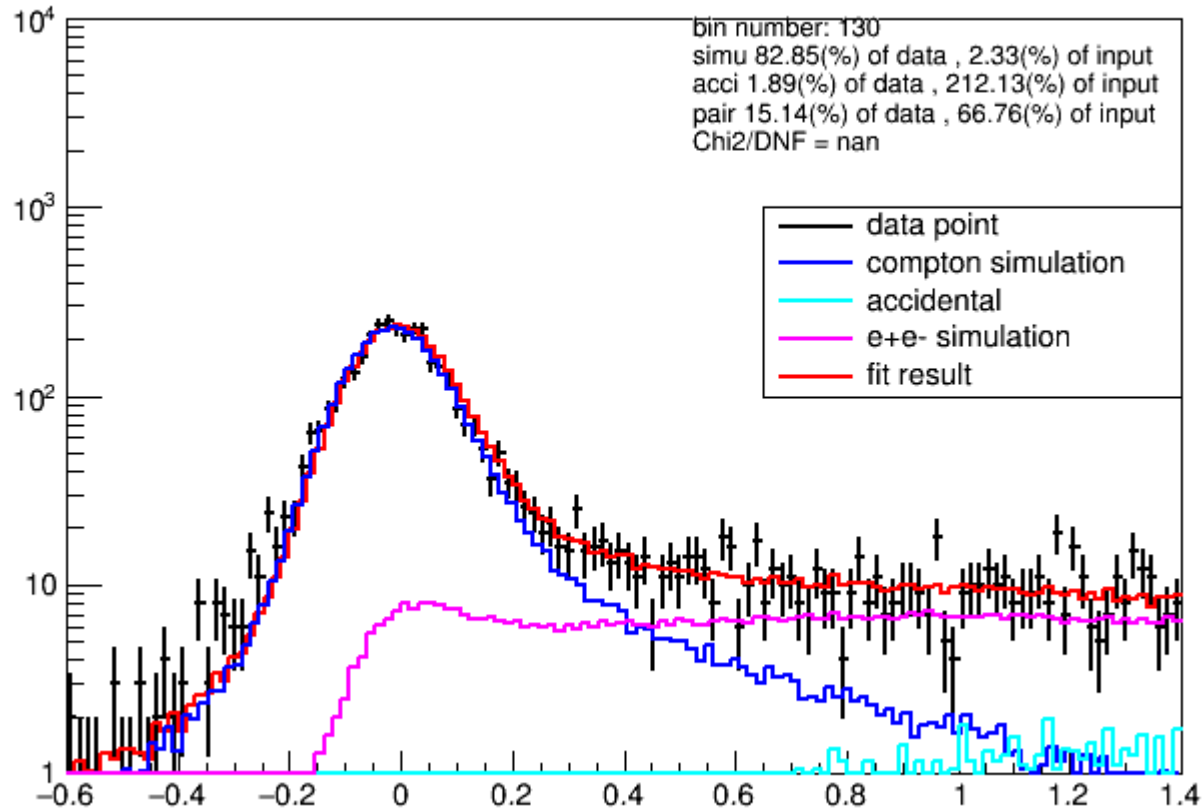
Let parameter free (same as Carbon target)

10_Target_E1

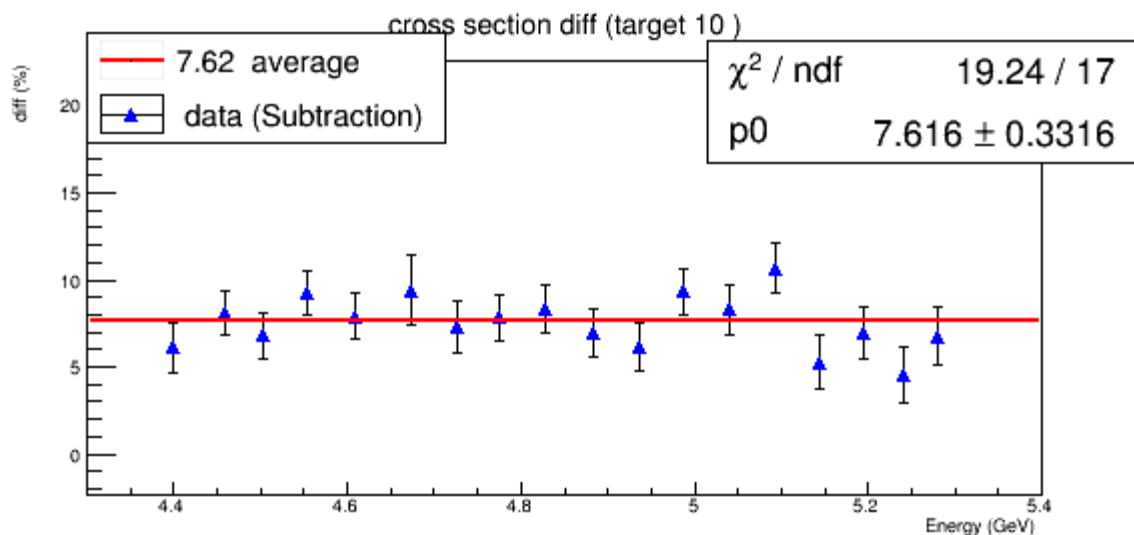
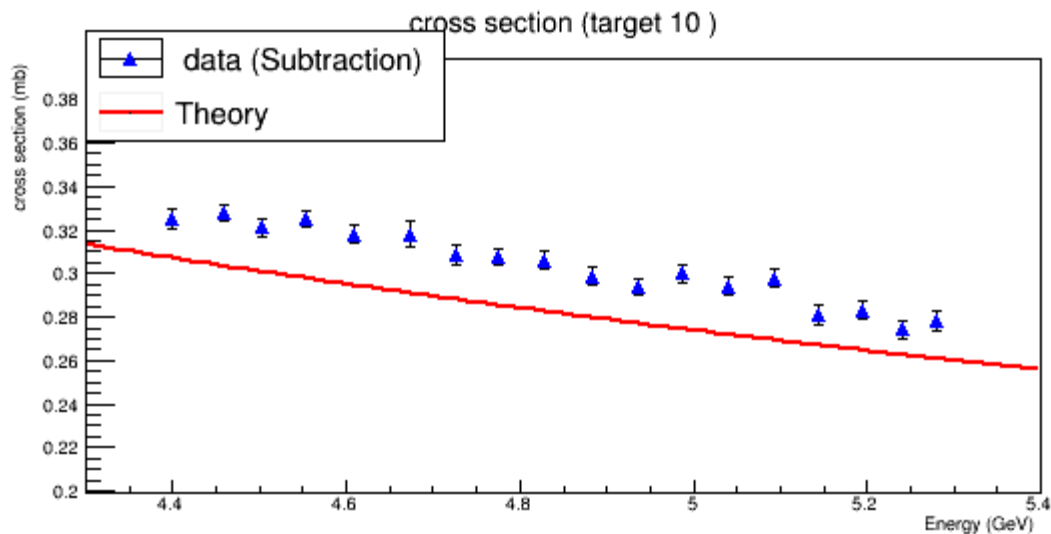


Free parameter

10_Target_E1

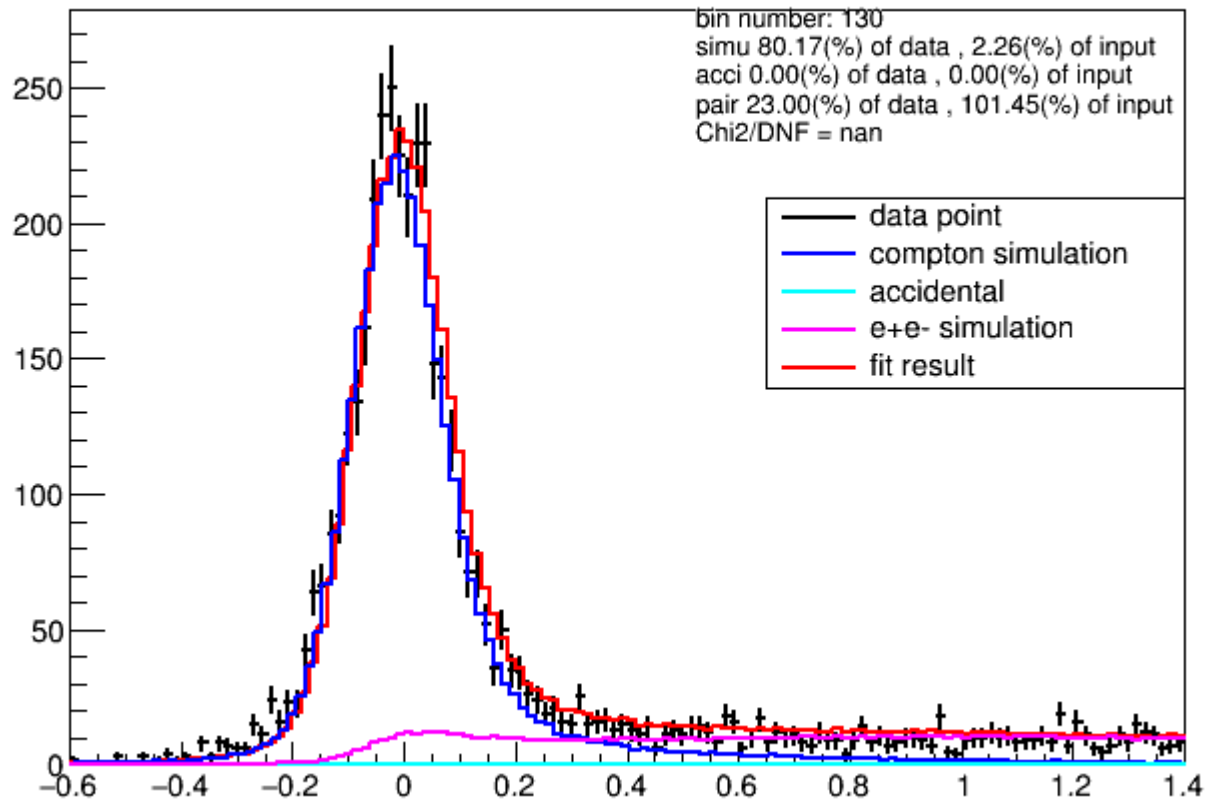


Free parameter



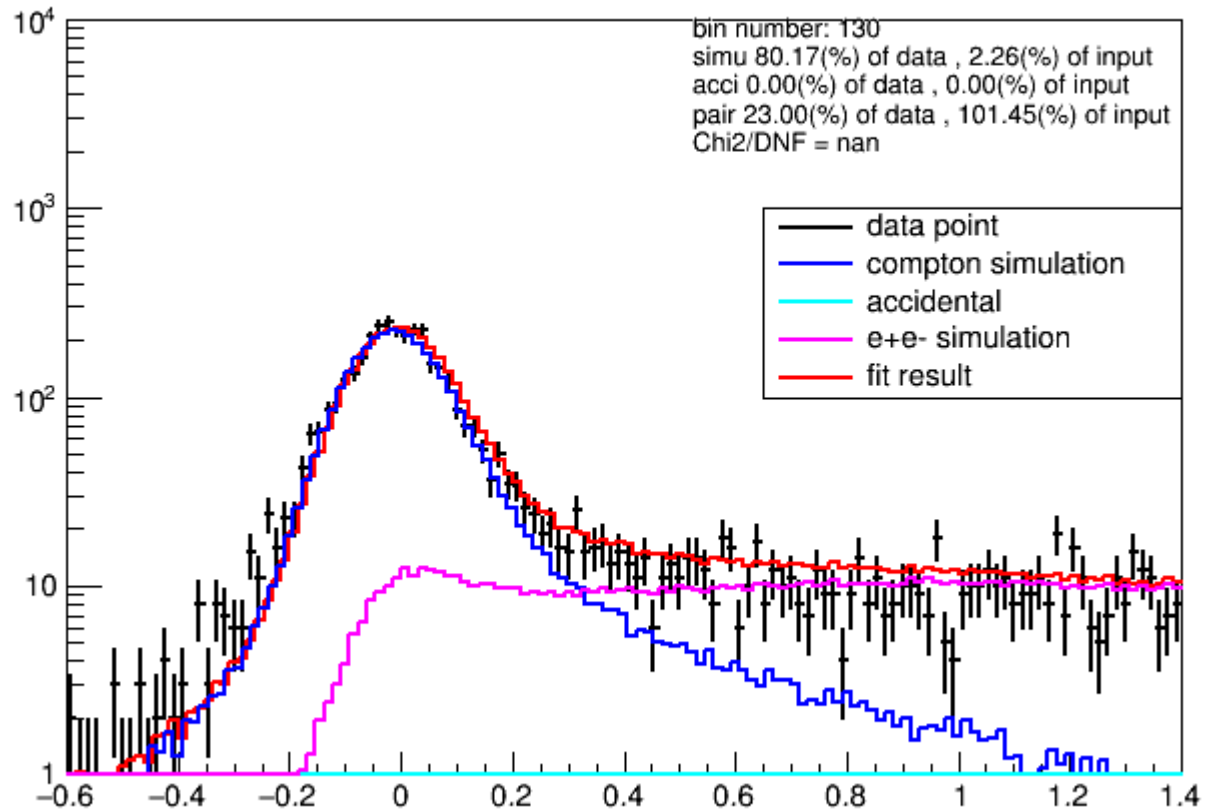
Fixed parameter

10_Target_E1



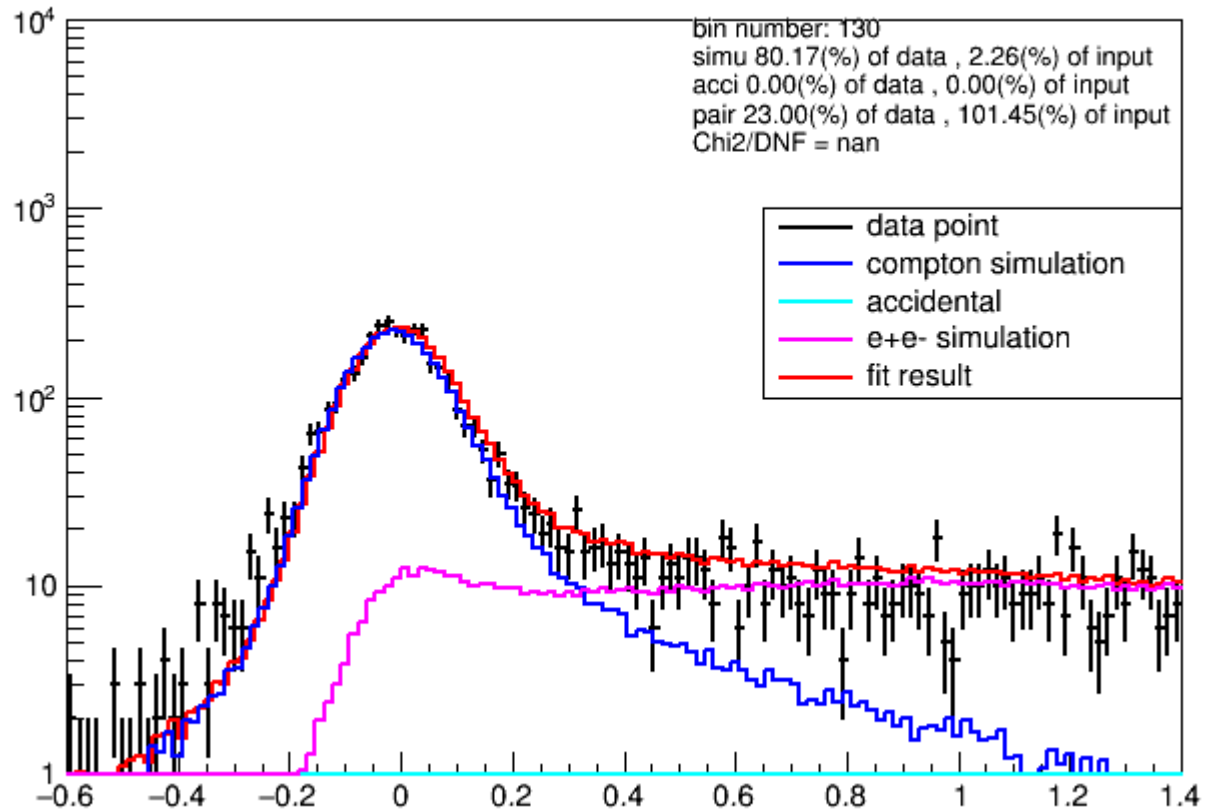
Fixed parameter

10_Target_E1

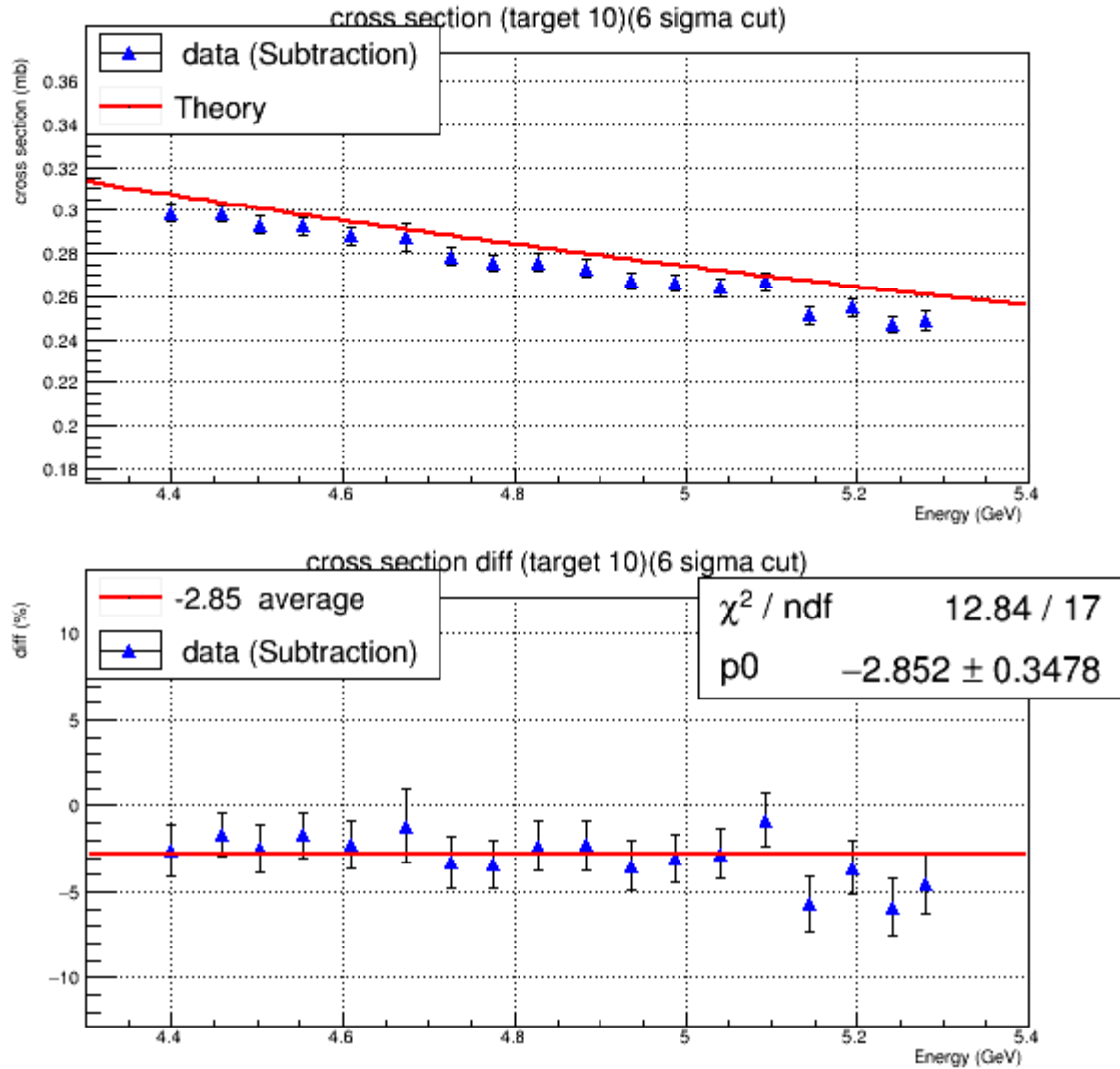


Fixed parameter

10_Target_E1



Fixed parameter



Target / cross	4 sigma	5 sigma	6 sigma
5% C	-4.86 %	-4.00 %	-3.22 %
8% C	-4.34 %	-3.71 %	-2.84 %
10% Si	-4.70 %	-3.60 %	-2.85 %