# Optics Status Update

Chao Gu

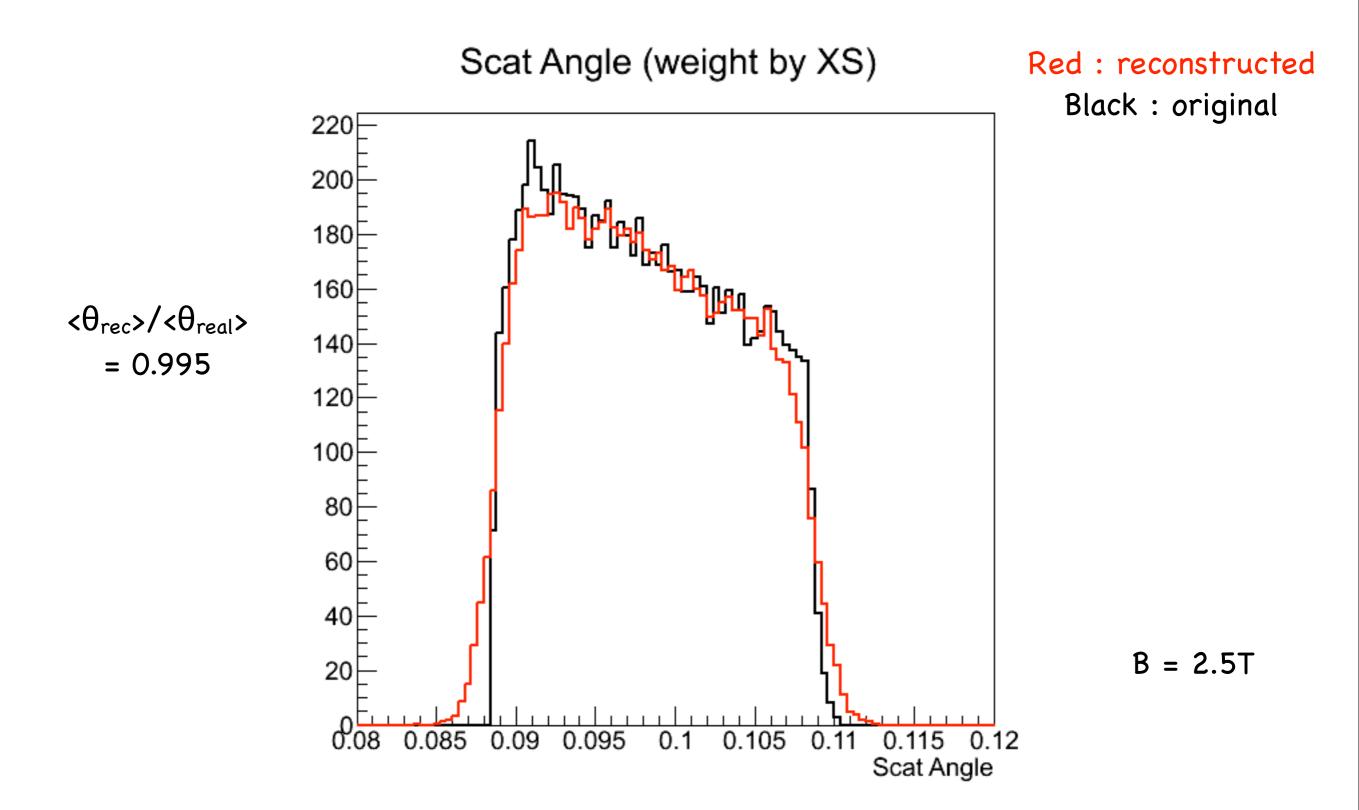
## Simulation Package

- Simulation package update
  - Test the cross section weighted distribution with P. Bosted model
  - Add an elastic <sup>12</sup>C model Using the fitting result of the charge distribution of <sup>12</sup>C from Larry Cardman (still working on this)

# Simulation Package

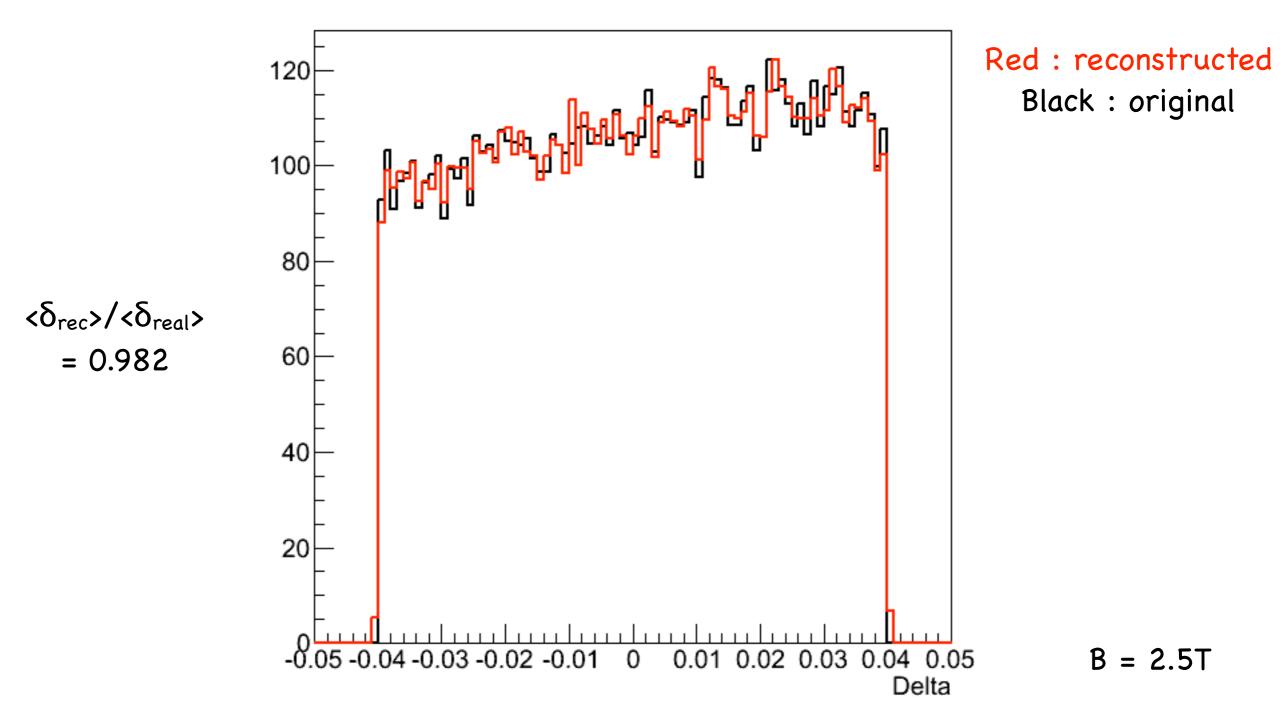
- Conditions
  - E = 2.254GeV,  $P_0 = 1.500$ GeV
  - 28mm target length
  - raster radius set to 1.5cm
  - target field set to 2.5T
  - use P. Bosted model to give quasi-elastic and inelastic cross section

#### Distribution weighted by XS



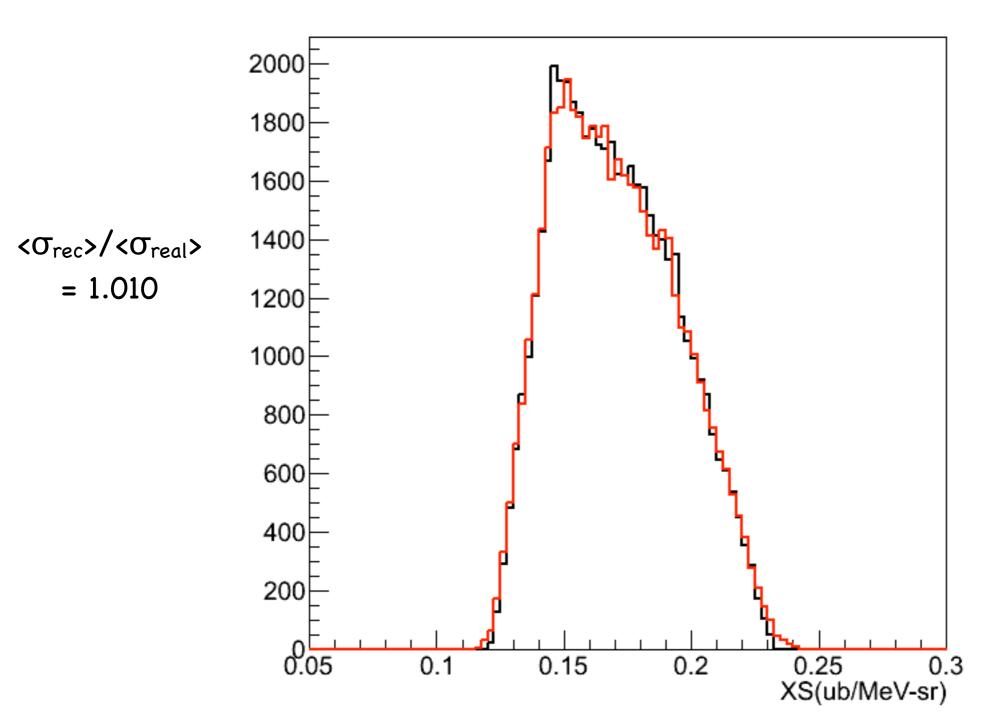
## Distribution weighted by XS

Delta (weight by XS)



#### Distribution weighted by XS





Red: reconstructed

Black: original

B = 2.5T

# Simulation Package

- TODO
  - Finish the elastic <sup>12</sup>C model