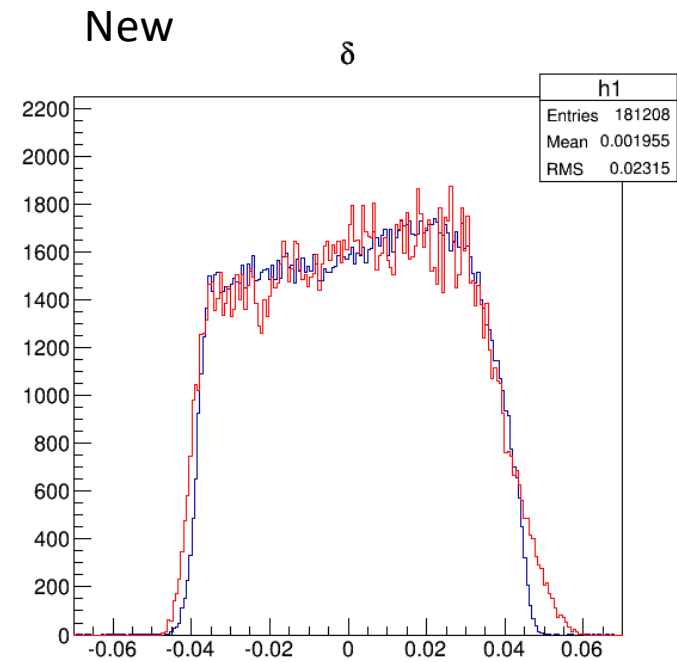
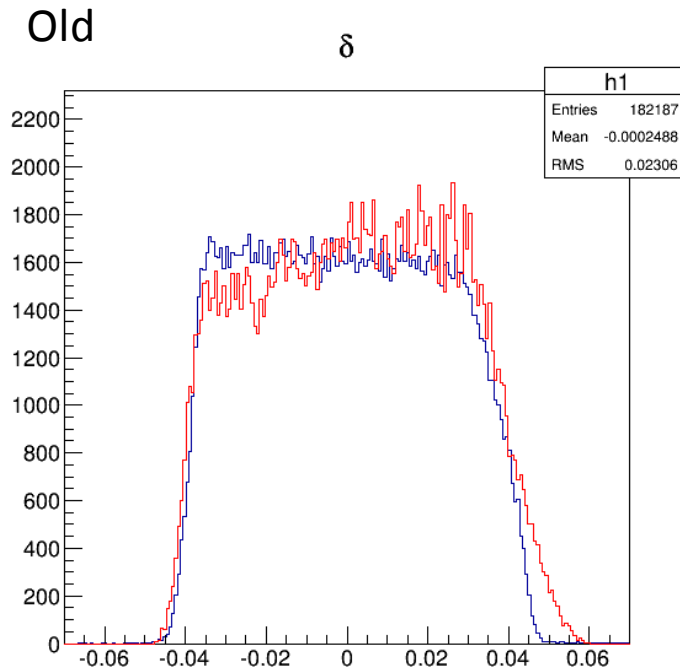


Acceptance Update

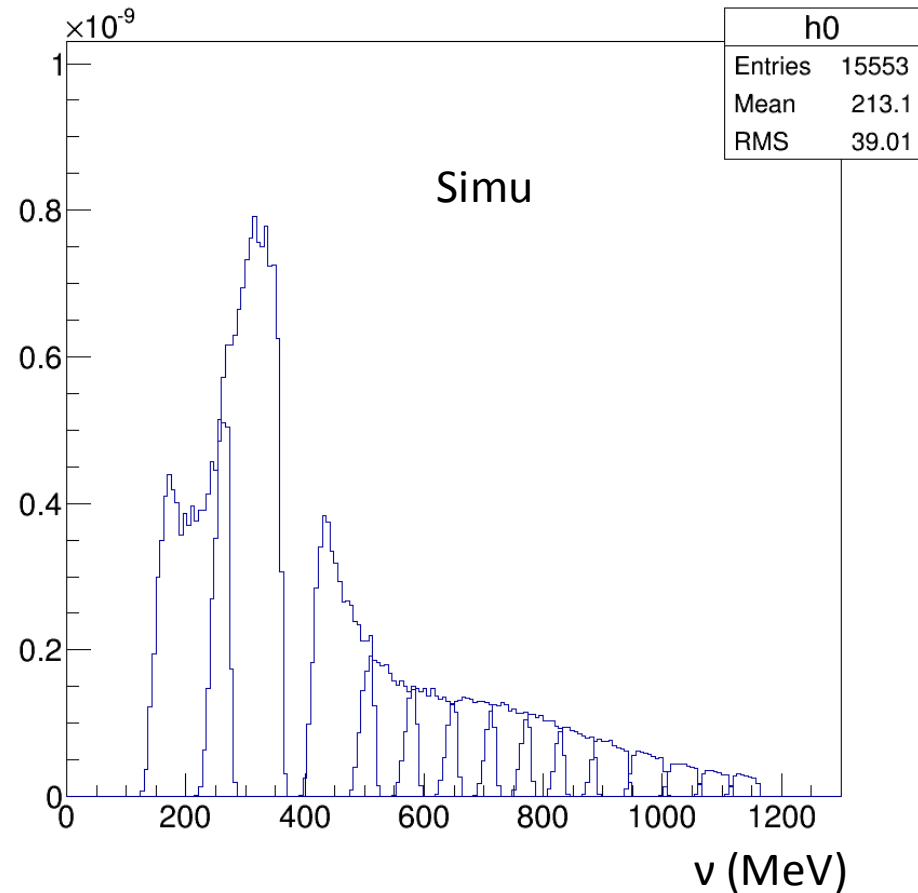
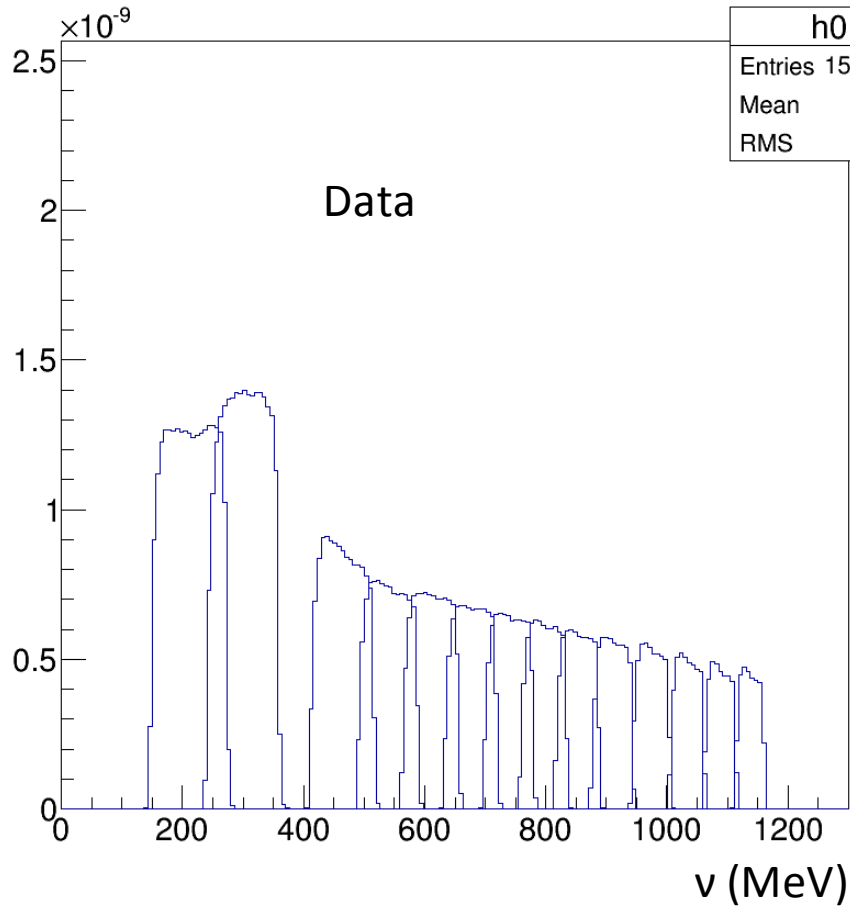
Min Huang

2/3/2016

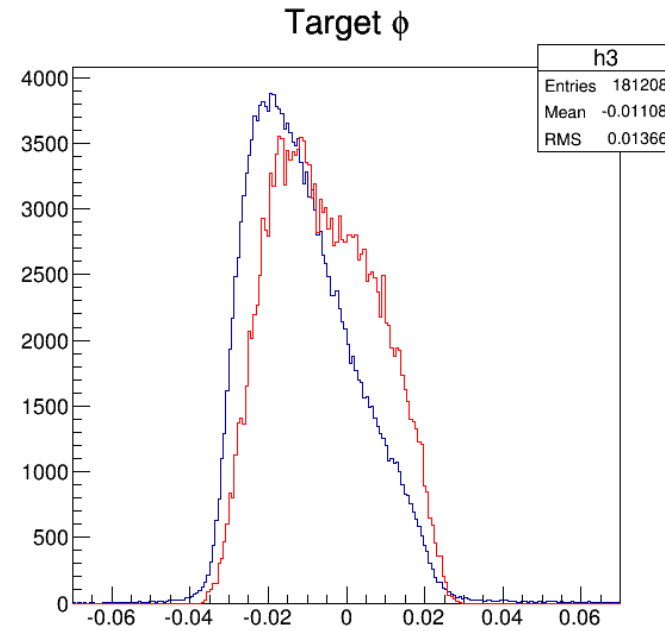
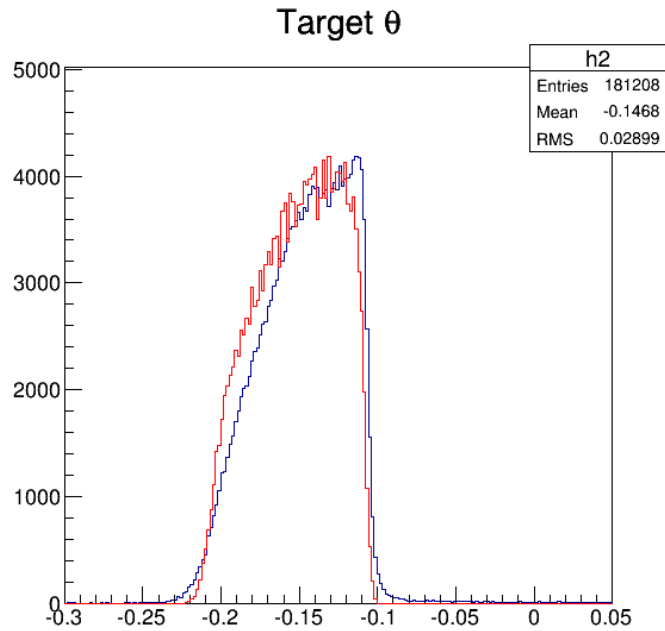
Momentum



Momentum Spectrum



Angles



↑
Need check!

Cross Section

- Unpolarized cross section

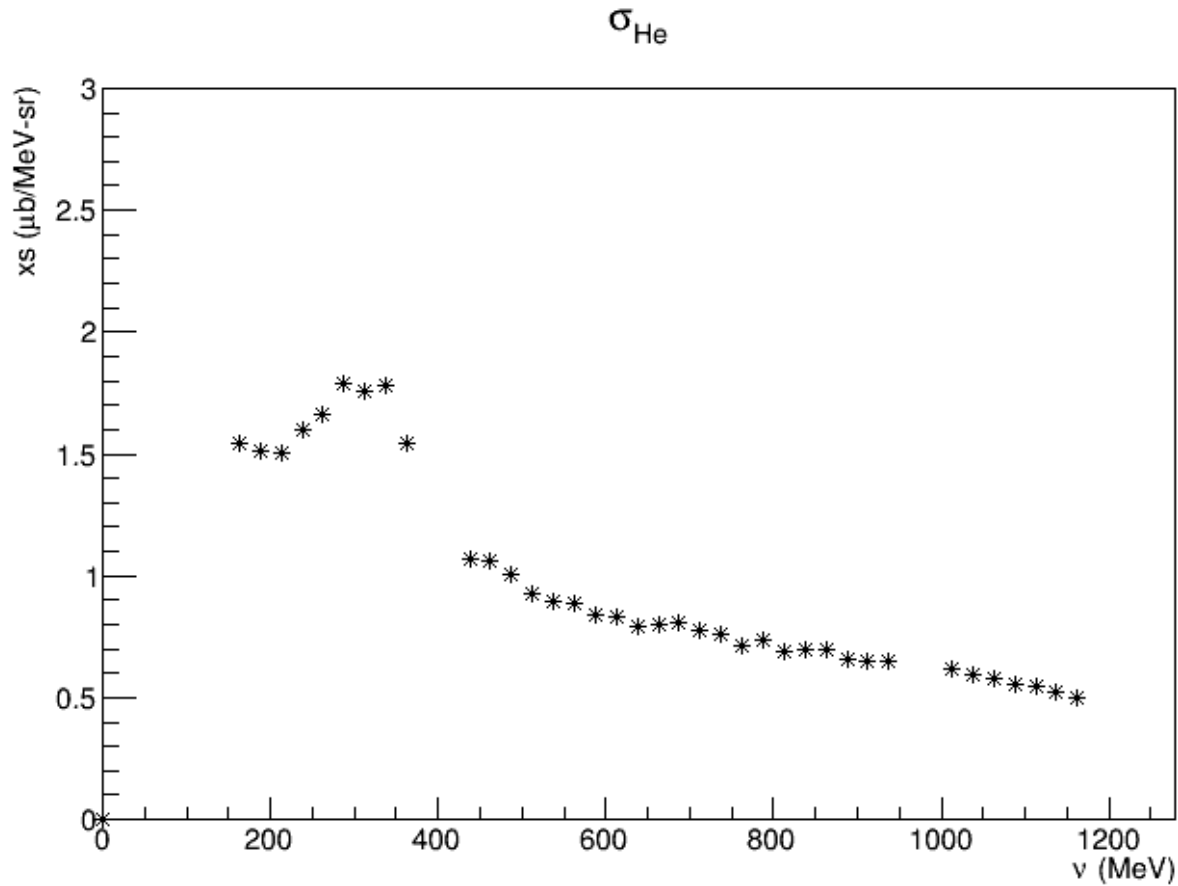
- $$\frac{d\sigma^{raw}}{d\Omega dE'} = \frac{N \cdot ps \cdot RC}{Q/q \cdot N_{tg} \cdot LT \cdot \epsilon_{det}} \frac{1}{Acc \cdot \Delta\Omega \Delta E'}$$

- Use Monte-Carlo simulation to study Acc

- $$\frac{1}{Acc \cdot \Delta\Omega \Delta E'} = \frac{1}{\Delta\Omega^{MC} \Delta E'^{MC}} \frac{N_{simu}^{MC}}{N_{acc}^{MC}}$$

Cross Section

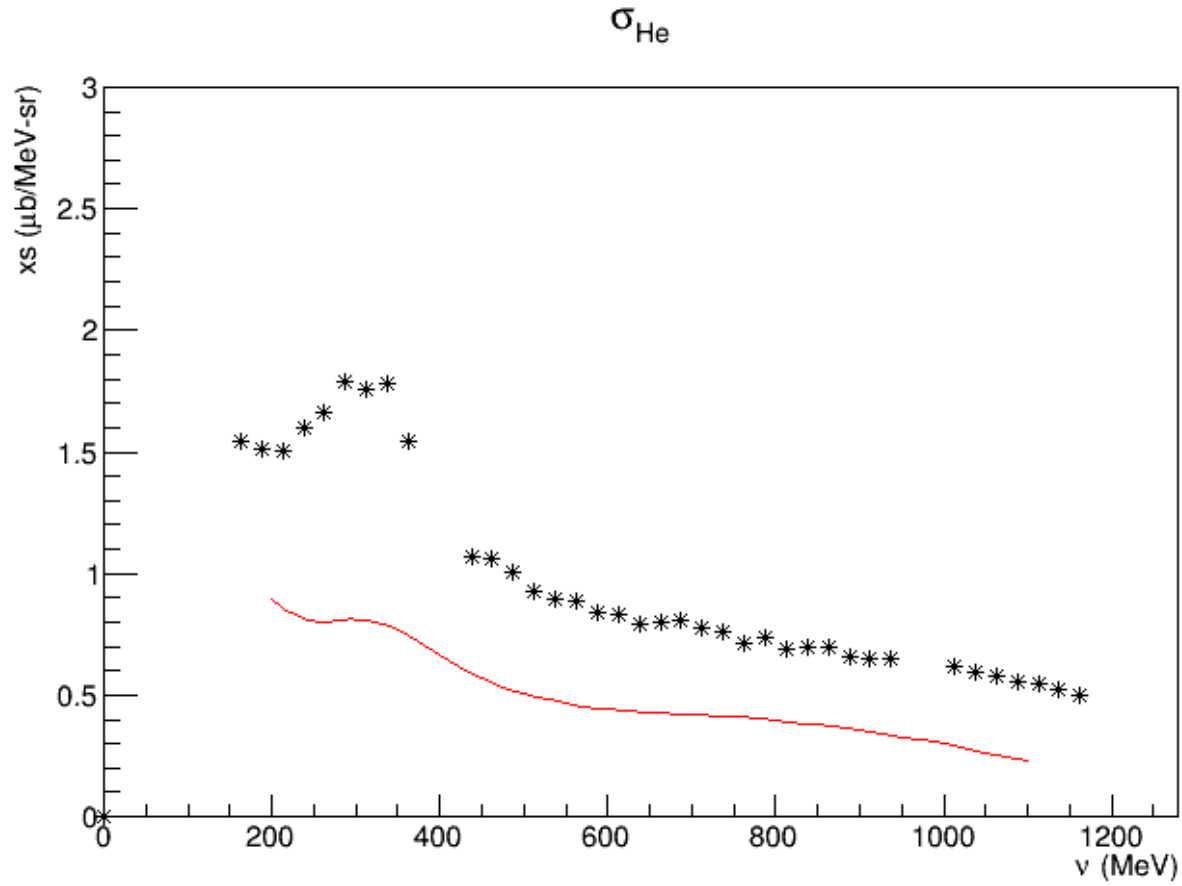
Empty Target



1.7 GeV, 2.5 T empty runs data

Cross Section

Empty Target



red line: radiated
Bosted model

1.7 GeV, 2.5 T empty runs data

Summary

- φ_{tg} comparison needs to be checked
 - Remove Mott xs from data, compare with uniformly generated simulation events
- Radiation model can be updated