

Simple update

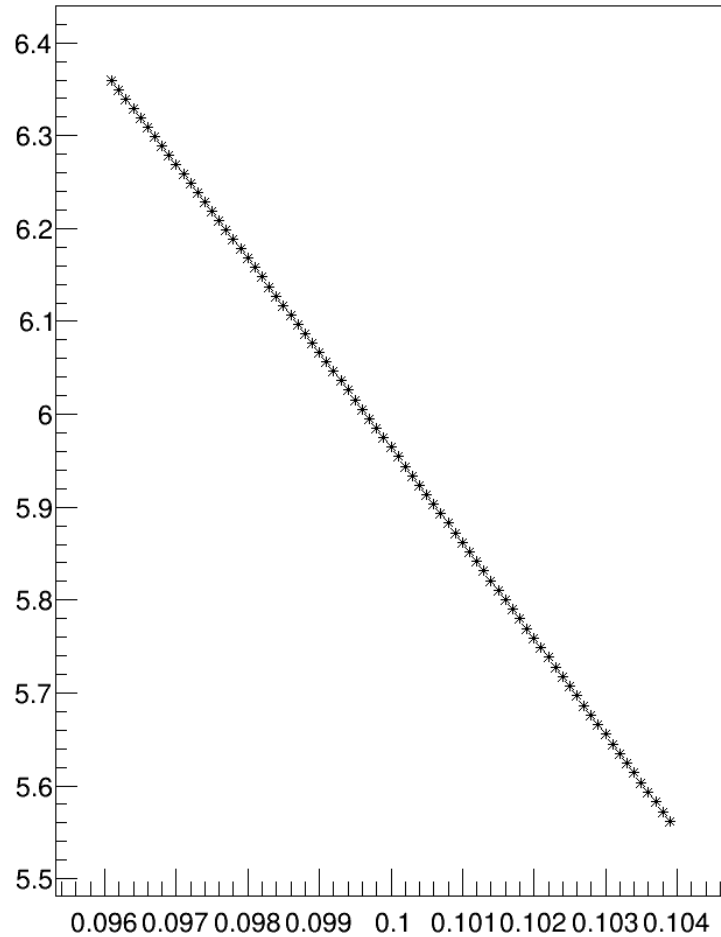
Cross section versus beam information

Jie Liu

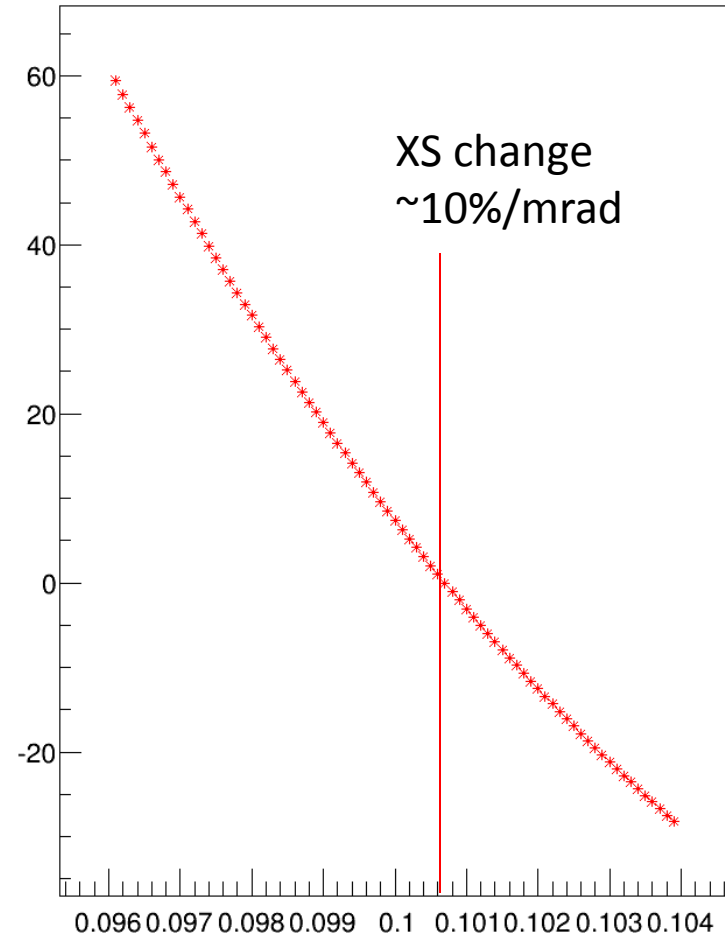
01/07/2015

Carbon Elastic XS -----calculate directly

σ_c vs. scattering angle

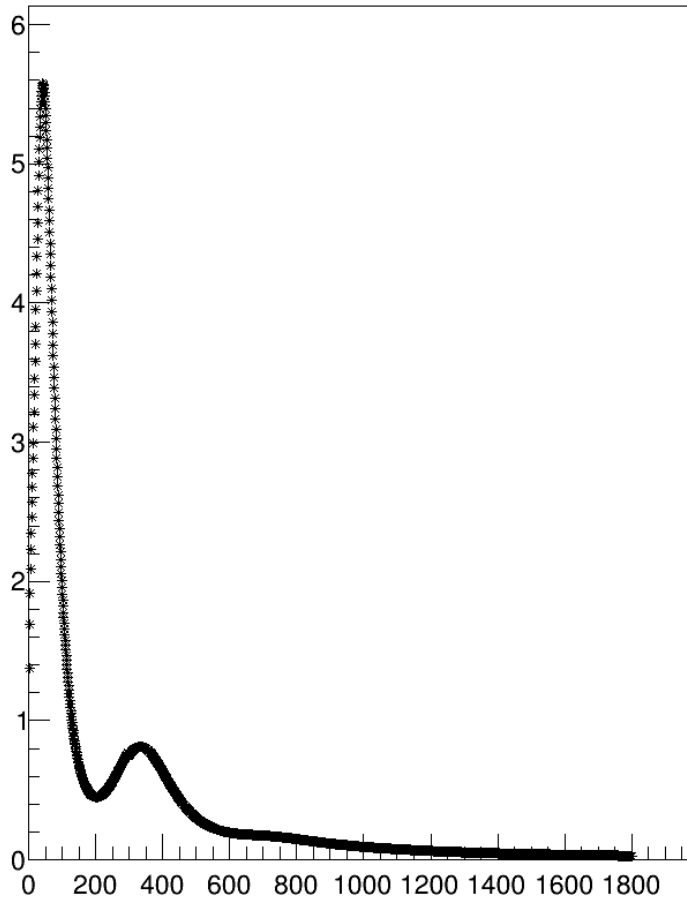


$(XS - XS_expect) / XS_expect$ vs. angle



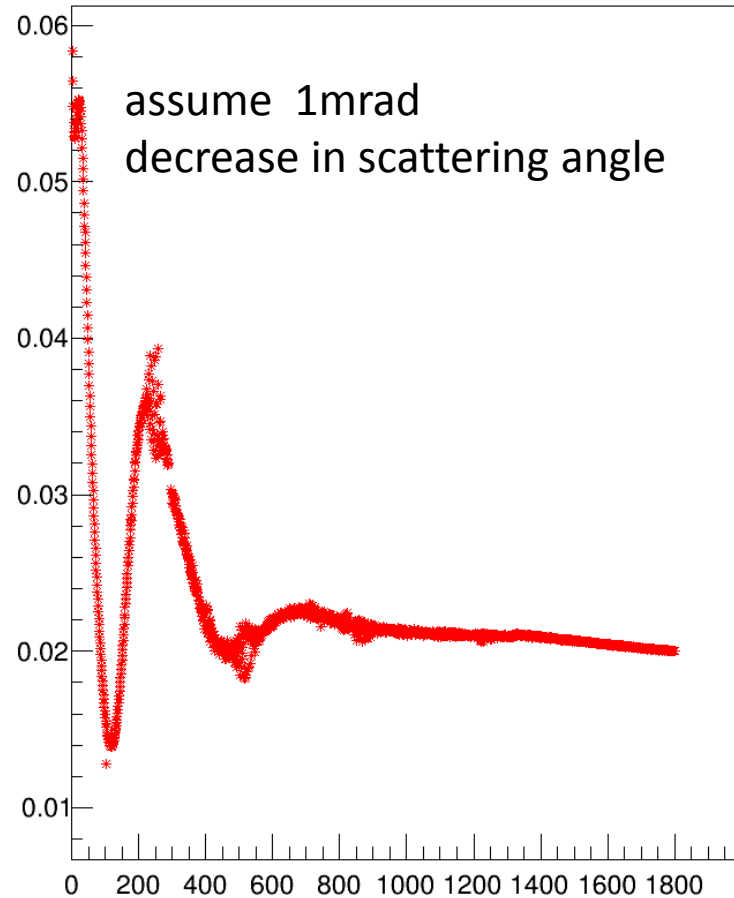
Carbon PBosted XS -----calculate directly

σ_C vs. Nu



Nu(MeV)

XS change % vs. Nu

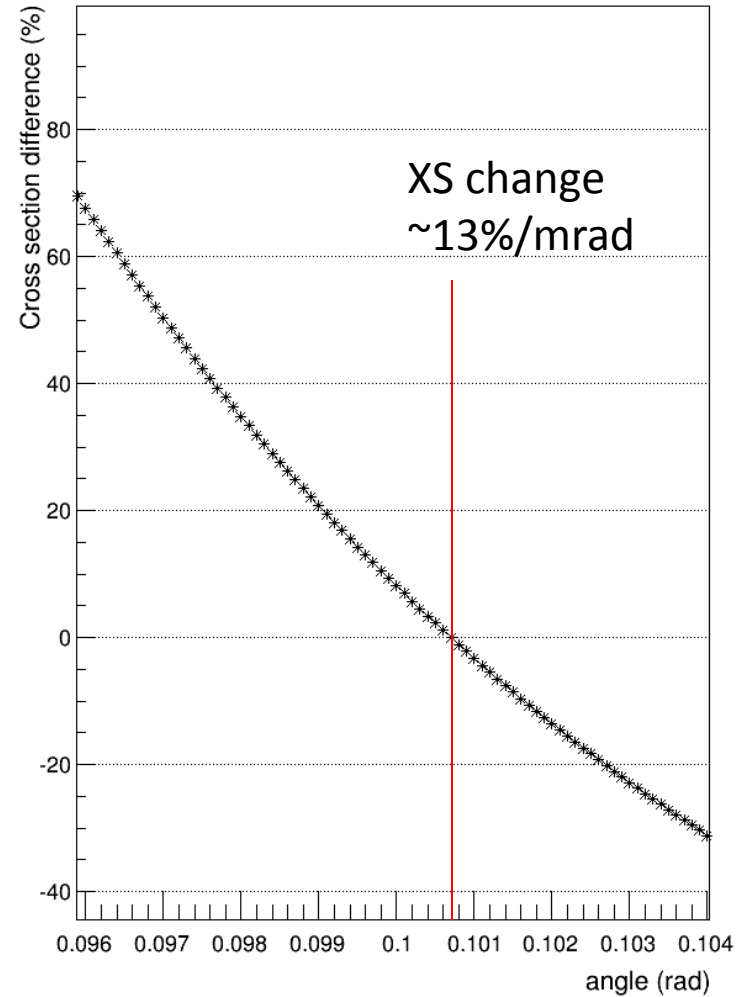
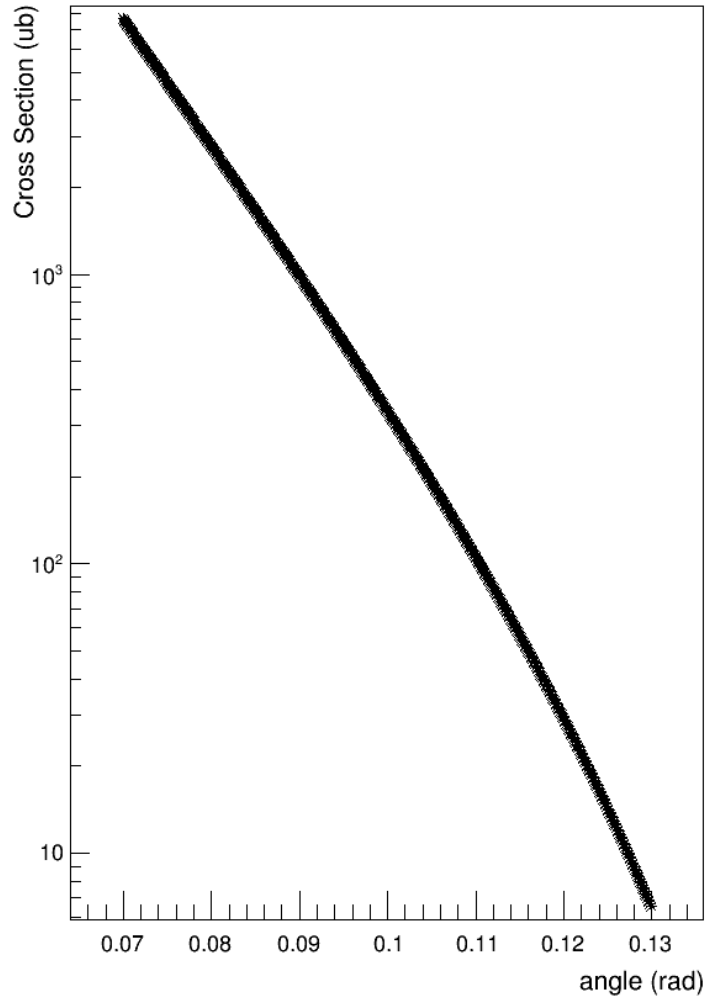


Nu(MeV)

Nitrogen Elastic XS -----calculate directly

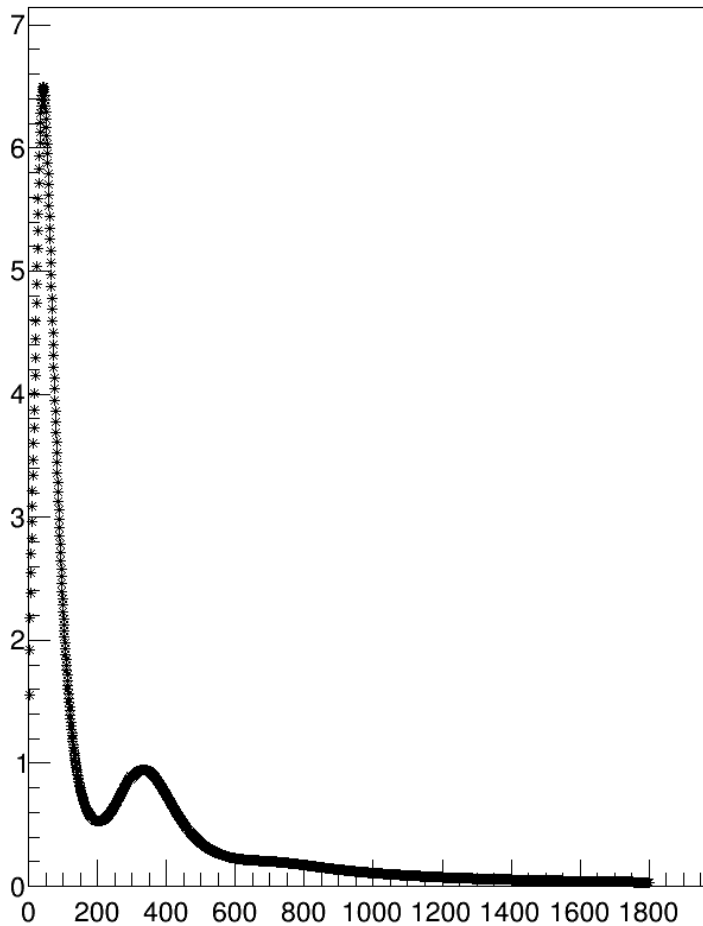
σ_N vs. scattering angle

$(XS - XS_expect) / XS_expect$ vs. angle



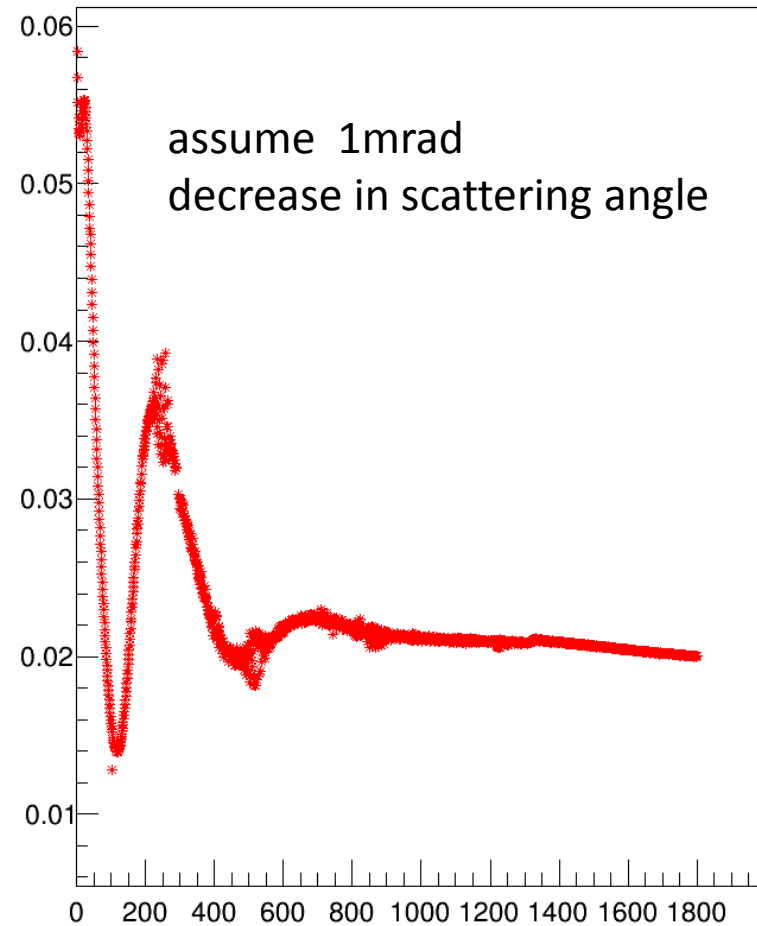
Nitrogen PBosted XS -----calculate directly

σ_N vs. Nu



Nu(MeV)

XS change % vs. Nu

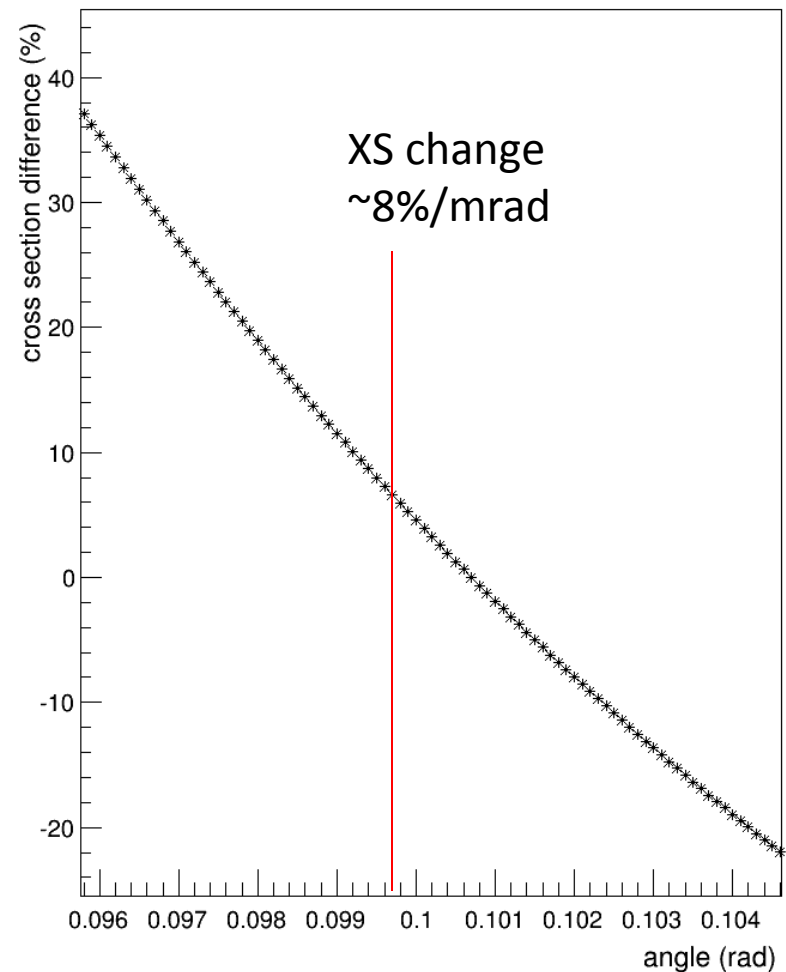
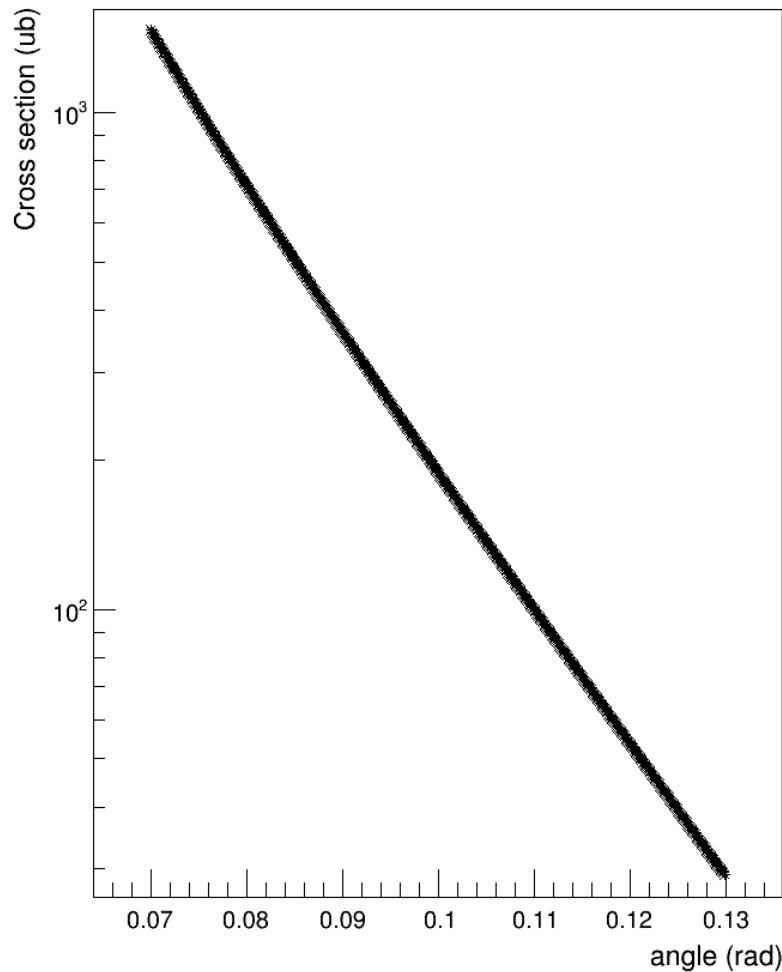


Nu(MeV)

Helium Elastic XS -----calculate directly

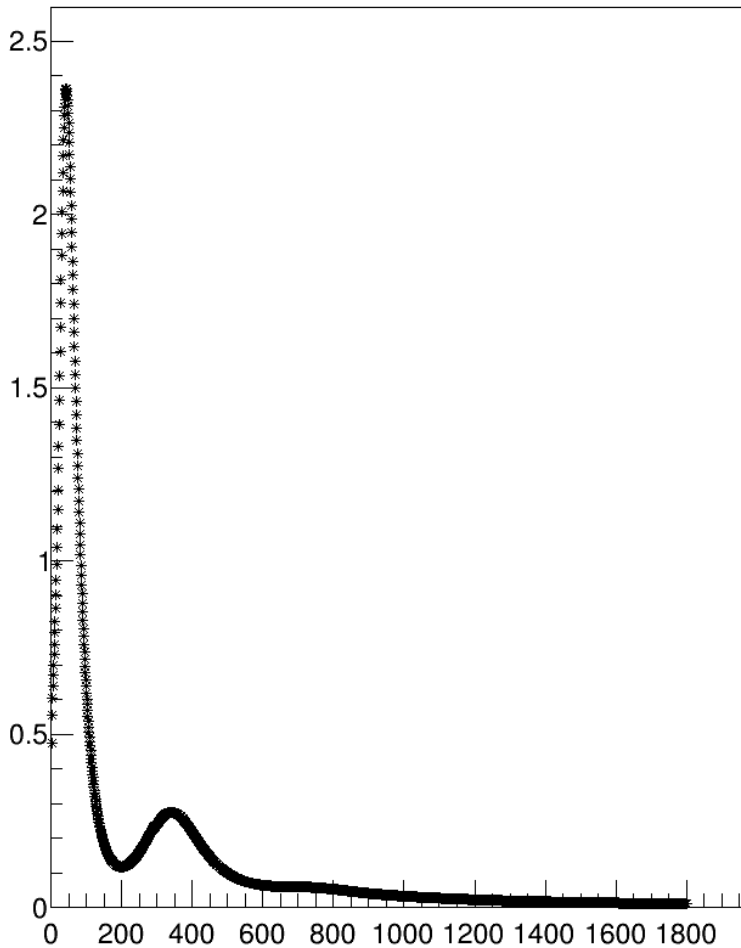
σ_{He} vs. scattering angle

$(XS - XS_expect) / XS_expect$ vs. angle



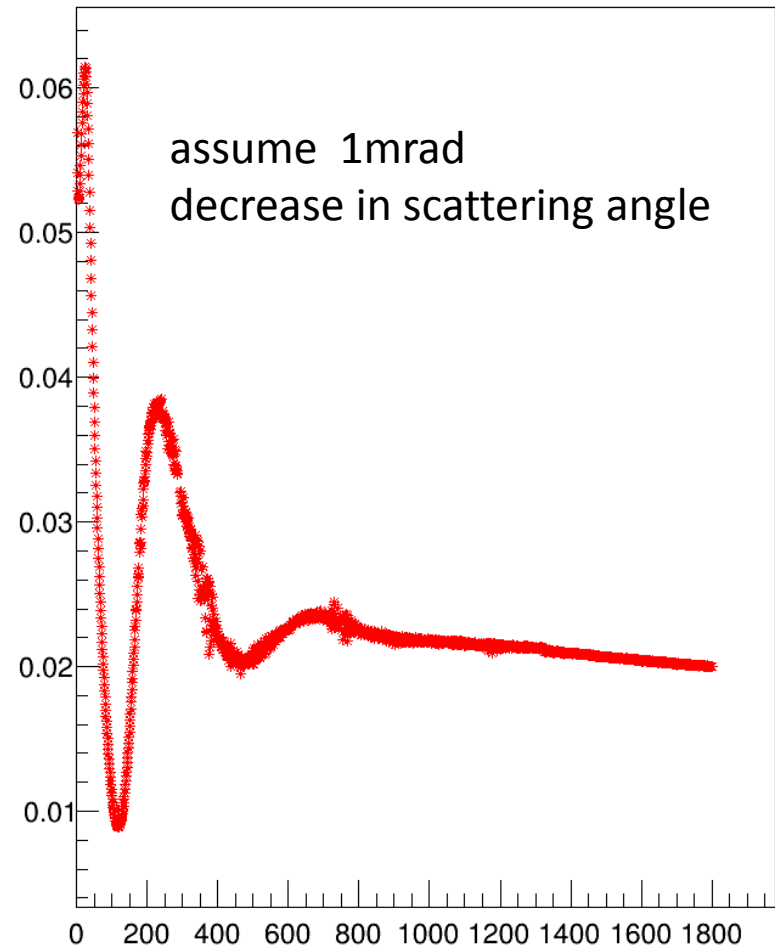
Helium PBosted XS -----calculate directly

σ_{He} vs. Nu



Nu(MeV)

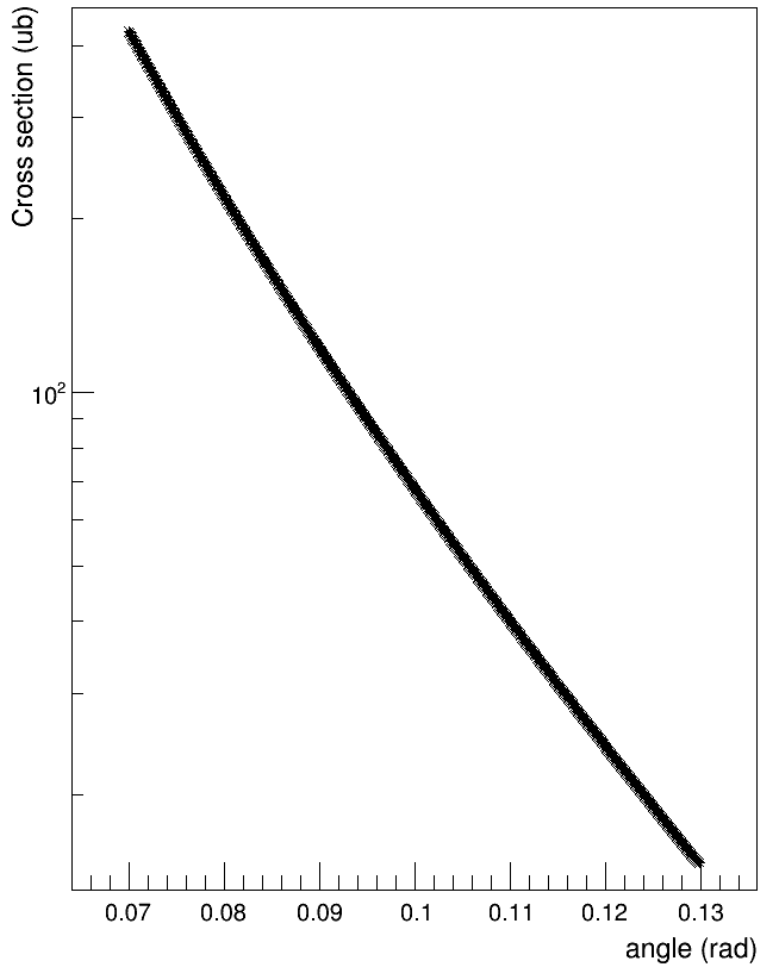
XS change % vs. Nu



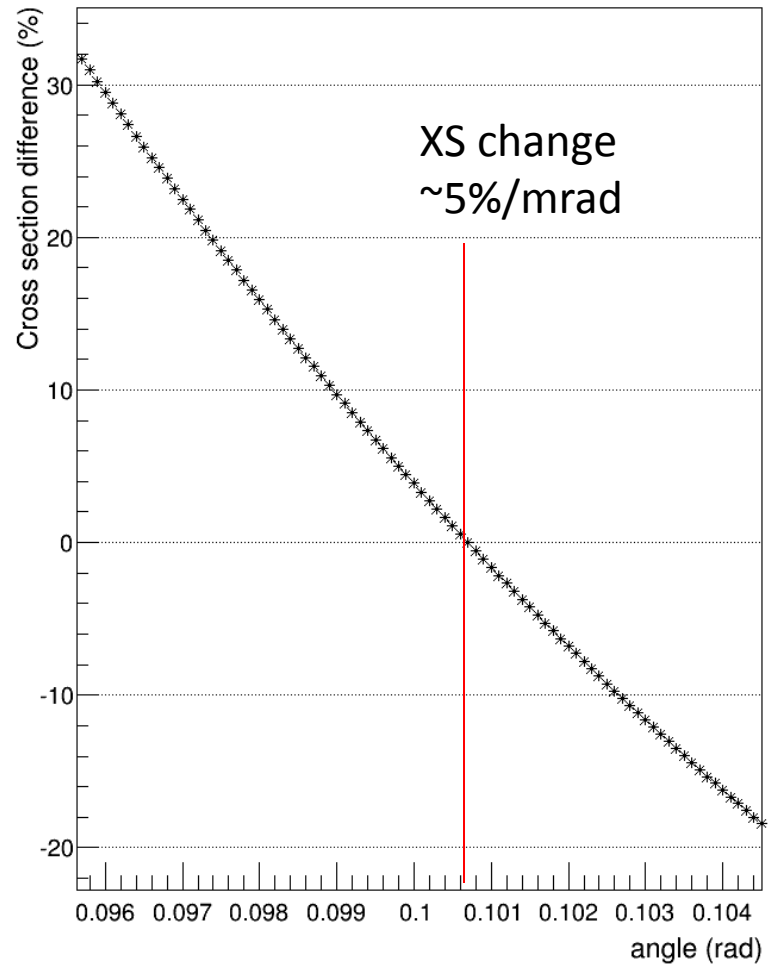
Nu(MeV)

Hydrogen Elastic XS -----calculate directly

σ_H vs. scattering angle

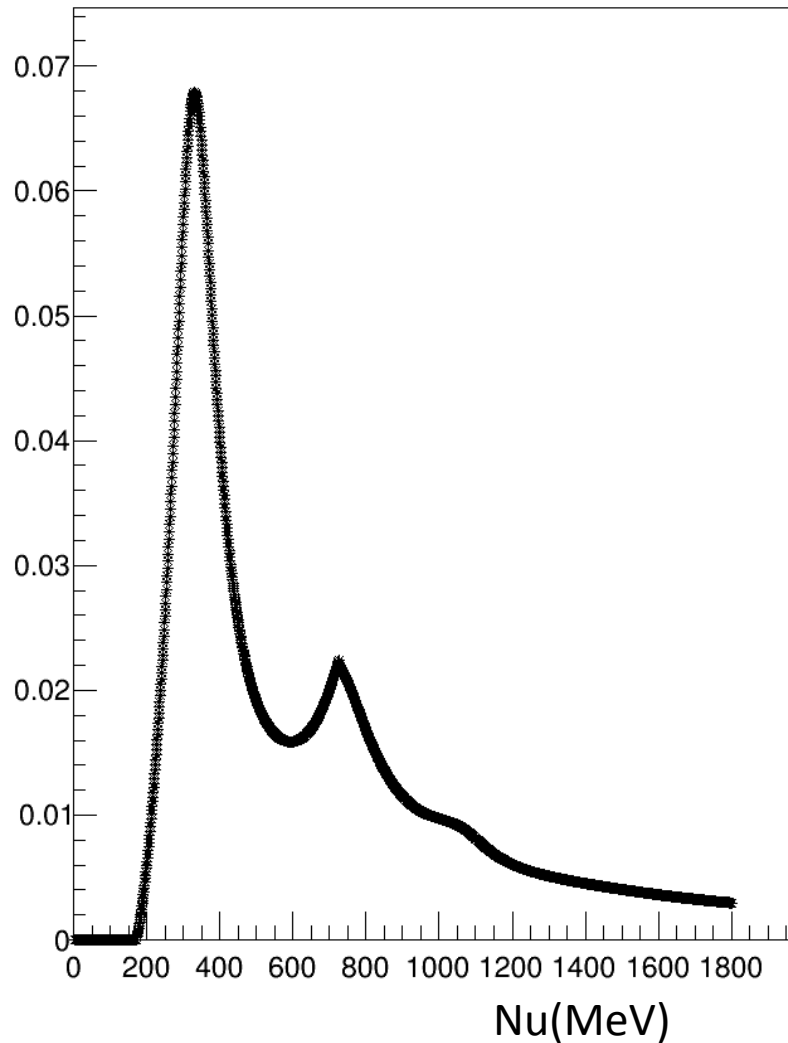


$(XS - XS_expect) / XS_expect$ vs. angle

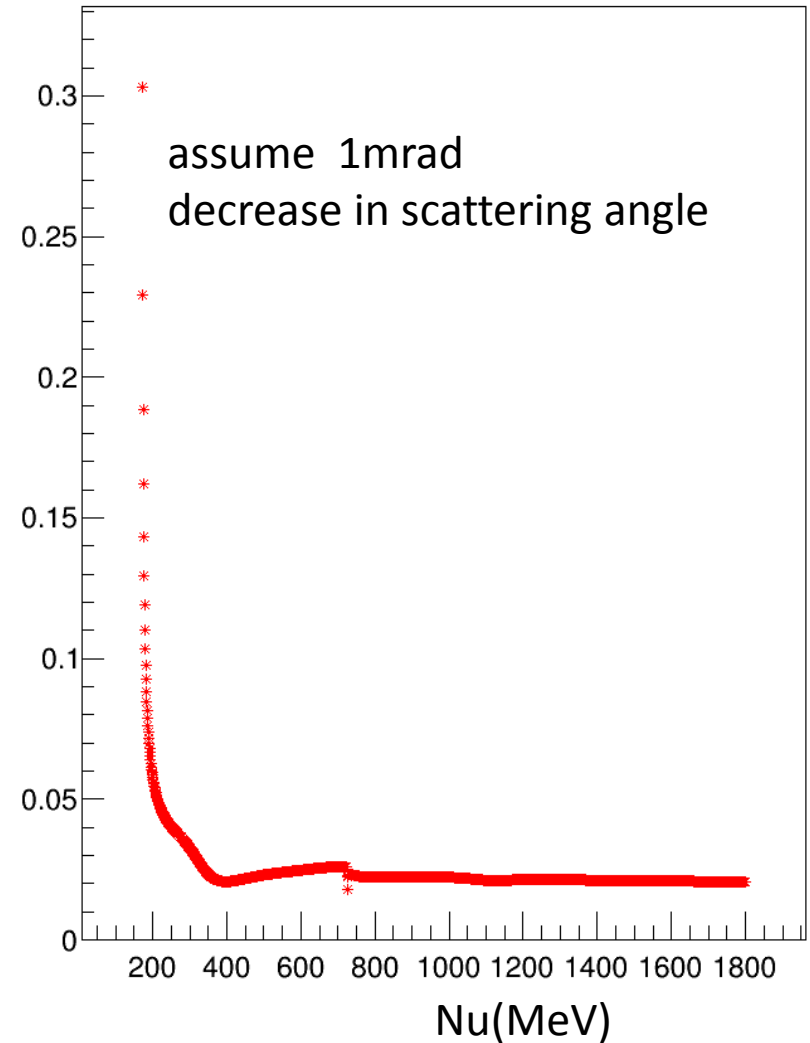


Hydrogen PBosted XS -----calculate directly

σ_H vs. Nu



XS change % vs. Nu



➤ Summary

- Help explain parts of yields deviation, not fully (may due to acceptance, beam or other issues)

➤ Short term

- Finish dp simulation soon, probably one week
- Learn acceptance study?...

➤ Long term

g_2^P and various moments

Expected graduate by summer 2016, depends