

# 1 Interesting observation

## 1.1 Effect of $x_{\text{mueout}}$

Figure 1 shows the profile when the scattering angle is allowed to lie in the interval  $\theta_{\text{out}} \in [-\pi, \pi]$ . Figure 2 shows the same computations, but with  $\theta_{\text{out}} \in [0, \pi]$

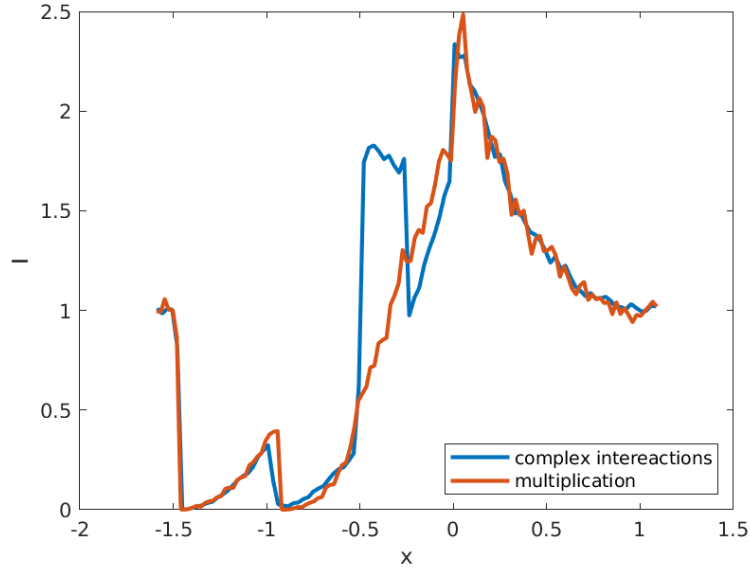


Figure 1: Comparison with multiplied profile ( $x_{\text{mueout}}$  can also be negative)

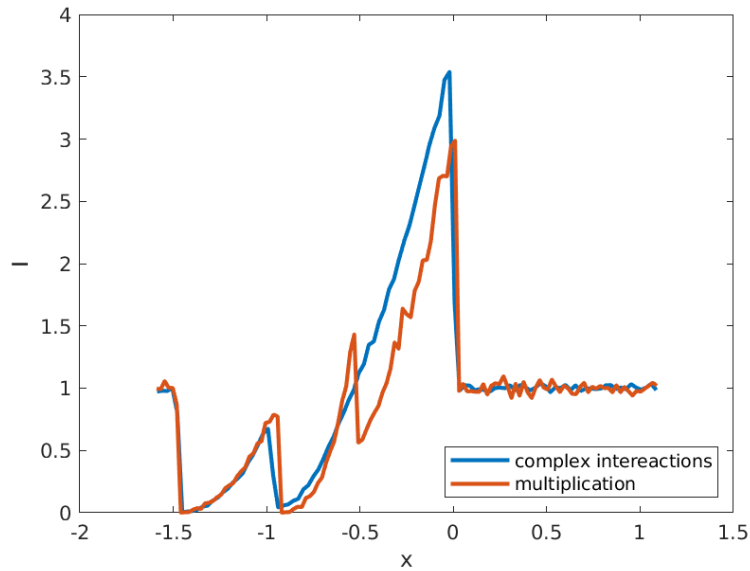


Figure 2: Comparison with multiplied profile ( $x_{\text{mueout}}$  is only positive)

Loosely speaking, one can understand this result because in Figure 2, photons are not allowed to be backscattered to the first resonance line.