We measure a radiated asymmetry:

$$A^{\mathrm{r}} = \frac{\Delta^{\mathrm{r}}}{\Sigma^{\mathrm{r}}} = \frac{\Delta^{\mathrm{r}}_{\mathrm{in}} + \Delta^{\mathrm{r}}_{\mathrm{el}}}{\Sigma^{\mathrm{r}}_{\mathrm{in}} + \Sigma^{\mathrm{r}}_{\mathrm{el}}}$$

where:

$$\Sigma + \Delta \quad = \quad \text{Total cross section (unpol. + pol.)}$$

First, need to remove elastic radiated tail to obtain $A^{\mathrm{r}}_{\mathrm{in}}$:

$$\begin{aligned} A^{\mathrm{r}}_{\mathrm{in}} &= \frac{\Delta^{\mathrm{r}}_{\mathrm{in}}}{\Sigma^{\mathrm{r}}_{\mathrm{in}}} \\ &= A^{\mathrm{r}} \cdot \frac{\left(\Sigma^{\mathrm{r}}_{\mathrm{in}} + \Sigma^{\mathrm{r}}_{\mathrm{el}}\right) - \Delta^{\mathrm{r}}_{\mathrm{el}}}{\Sigma^{\mathrm{r}}_{\mathrm{in}}} \\ &= A^{\mathrm{r}} \cdot \left(1 + \frac{\Sigma^{\mathrm{r}}_{\mathrm{el}} - \Delta^{\mathrm{r}}_{\mathrm{el}}}{\Sigma^{\mathrm{r}}_{\mathrm{in}}}\right) \\ &= A^{\mathrm{r}} \cdot (1 + \delta) \end{aligned}$$

The extraction requires a model of $\Sigma^{\mathrm{r}}_{\mathrm{in}}$, $\Sigma^{\mathrm{r}}_{\mathrm{el}}$ and $\Delta^{\mathrm{r}}_{\mathrm{el}}$ at RSS kinematics.

1. $\Sigma^{\mathrm{r}}_{\mathrm{in}}$: Hall C fit (radiated ala Stein).
2. $\Sigma^{\mathrm{r}}_{\mathrm{el}}$: rosetail code. (Dipole FF)
3. $\Delta^{\mathrm{r}}_{\mathrm{el}}$: rosetail code combined with Mascarad FF for asymmetry.

After tail subtraction, perform RC on inelastic cross section difference $\Delta\sigma^{\mathrm{r}}_{\mathrm{in}}$

$$\Delta\sigma^{\mathrm{r}}_{\mathrm{in}} \quad = \quad 2\ \Sigma^{\mathrm{r}}_{\mathrm{in}} A^{\mathrm{r}}_{\mathrm{in}}$$

Unfolding (Polrad) requires model of $\Delta\sigma_{\mathrm{in}}$ at lower incident energies. For this I'm using a combination of MAID2003 and the hall C unpolarized fit.