$$N_{\rm int}^{(\nu_i)}(E_\nu) = \int d\phi \quad n_T L_T \times \frac{d^2 N_{\nu_i}(E_\nu)}{dE_\nu} \times \frac{d^2\sigma^{\nu_i A}(x, Q^2, E_\nu)}{dx dQ^2} \times \mathcal{A}(E_\ell, \theta_\ell, E_h)$$