$$C^{\infty,\pm}_{\ell mn}(r) = \int_{r_{\min}}^{r} \frac{\psi^{h}_{\ell mn}(r')S^{\mathrm{eff},\pm}_{\ell mn}(r')}{W[\psi^{h}_{\ell mn}(r'),\psi^{\infty}_{\ell mn}(r')]}\,dr'$$

$$C^{h,\pm}_{\ell mn}(r) = \int_{r}^{r_{\max}} \frac{\psi^{\infty}_{\ell mn}(r')S^{\mathrm{eff},\pm}_{\ell mn}(r')}{W[\psi^{h}_{\ell mn}(r'),\psi^{\infty}_{\ell mn}(r')]}\,dr'$$