

$$\psi_{lmn}^{\mathcal{R}}(r) = \begin{cases} a_{lmn}^h \psi_{lmn}^h(r), & r \leq r_{\min}, \\ b_{lmn}^{\infty} \psi_{lmn}^{\infty}(r) + b_{lmn}^h \psi_{lmn}^h(r) + \psi_{lmn}^{\text{inh}}(r), & r_{\min} < r < r_{\max}, \\ a_{lmn}^{\infty} \psi_{lmn}^{\infty}(r), & r \geq r_{\max}. \end{cases}$$