

Dielectric function

$$\varepsilon_{\alpha\beta}(\omega) = \varepsilon_{\alpha\beta}^{\infty} + \frac{1}{v_0} \sum_j \frac{\overset{\textcolor{teal}{S}}{S}_{\alpha\beta}^j}{\left(\textcolor{red}{\Omega}_{\mathbf{0}j}^{\text{SCPH+B}}\right)^2 - \omega^2 - 2\textcolor{red}{\Omega}_{\mathbf{0}j}^{\text{SCPH+B}}\textcolor{blue}{\Sigma}^{\text{B+4ph}}(\omega)}$$

