

$$\psi_1 = \frac{a}{2b} \exp[b(I_1 - 3)] + \sum_{\iota=f,s} \frac{a_{\iota}}{2b_{\iota}} \{ \exp \left[ b_{\iota} (I_{4\iota} - 1)^2 \right] - 1 \} + \frac{a_{fs}}{2b_{fs}} \left[ \exp \left( b_{fs} I_{8fs}^2 \right) - 1 \right]$$