

$$\xi_{\text{BF}}^{\hat{\text{dip}}} = (b_{\text{B}} - b_{\text{F}}) \frac{\mathcal{H}}{\mathcal{H}_0} \left(\frac{D}{D_0} \right)^2 \left[\frac{\Theta - \Gamma}{1 + \Gamma} f - \frac{\Gamma}{1 + \Gamma} \left(\frac{\mathcal{H}'}{\mathcal{H}^2} f + f^2 + \frac{f}{\mathcal{H}} \right) + \frac{2}{r\mathcal{H}} + \frac{\mathcal{H}'}{\mathcal{H}^2} \right] \nu_1^{\text{rel}}(d)$$