$$\sigma_{I_D} = \sqrt{\frac{1}{16\pi^4} D^2 \sigma_b^2 + \frac{1}{16\pi^4} b^2 \sigma_D^2}$$

$$\sigma_i = \sqrt{\frac{1}{4\pi^4} D^2 \langle T_i \rangle^2 \sigma^2_{\langle T_i \rangle} + \frac{1}{16\pi^4} \langle T_i \rangle^4 \sigma_D^2}$$

$$\sigma_{I_{Kugel}} = \sqrt{0.16 R^4 \sigma_m^2 + 0.64 R^2 \sigma_R^2 m^2}$$

$$\sqrt{0.25 R^4 \sigma_m^2 + 1.0 R^2 \sigma_R^2 m^2}$$

$$\sqrt{\frac{R^2 \sigma_R^2}{4} m^2 + \frac{h^2 \sigma_h^2}{36} m^2 + \sigma_m^2 \left(\frac{R^2}{4} + \frac{h^2}{12} \right)^2}$$