

$$\hat{R} = \begin{cases} \frac{2g_\chi^2 g_e^2 (1 + \langle c^2 \rangle)}{\Lambda_\chi^2} (q_{\max}^2 - q_{\min}^2) & \text{(magnetic dipole) ,} \\ \frac{g_\chi^2 g_e^2 (1 + \langle c^2 \rangle)}{4\Lambda_\chi^4} (q_{\max}^4 - q_{\min}^4) & \text{(anapole) ,} \\ g_\chi^2 g_e^2 \langle s^2 \rangle \log(q_{\max}/q_{\min}) & \text{(pseudo-mediated) .} \end{cases}$$