

$$\mathrm{d}\left[\eta,k\right]=d_k^{(n)}+\mathcal{O}^*\left(f_{3n/2-k}\frac{\sqrt{2\pi}}{128}\frac{(\pi a^2/8)^{n/2}~2^{2k}~\epsilon_4}{\Gamma((3n-2k+1)/2)}\right).$$