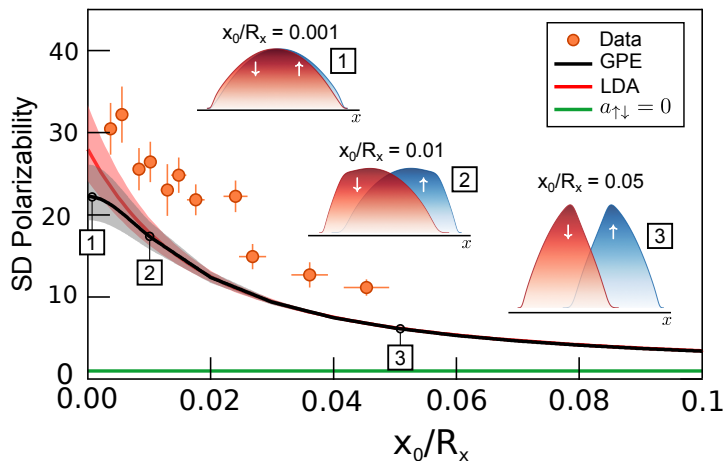Define SD polarizability: $\mathcal{P}(x_0) \equiv \dfrac{d(x_0)}{2x_0}$

LDA calculation: $\mathcal{P}(x_0 \to 0) = \dfrac{a + a_{\uparrow\downarrow}}{a - a_{\uparrow\downarrow}}$