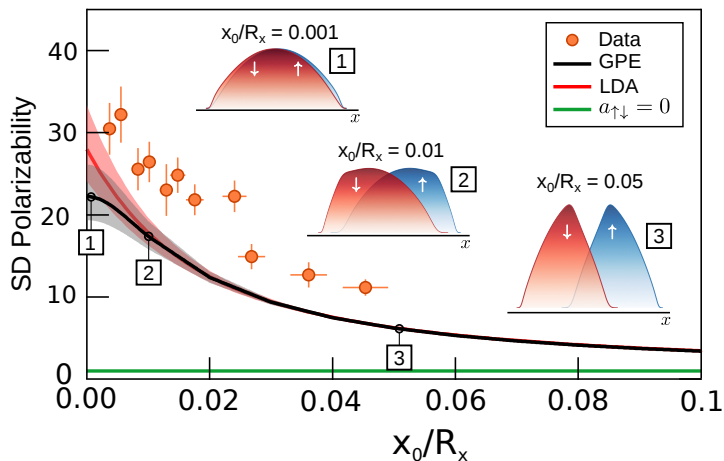


Define SD polarizability: $\mathcal{P}(x_0) \equiv \frac{d(x_0)}{2x_0}$



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