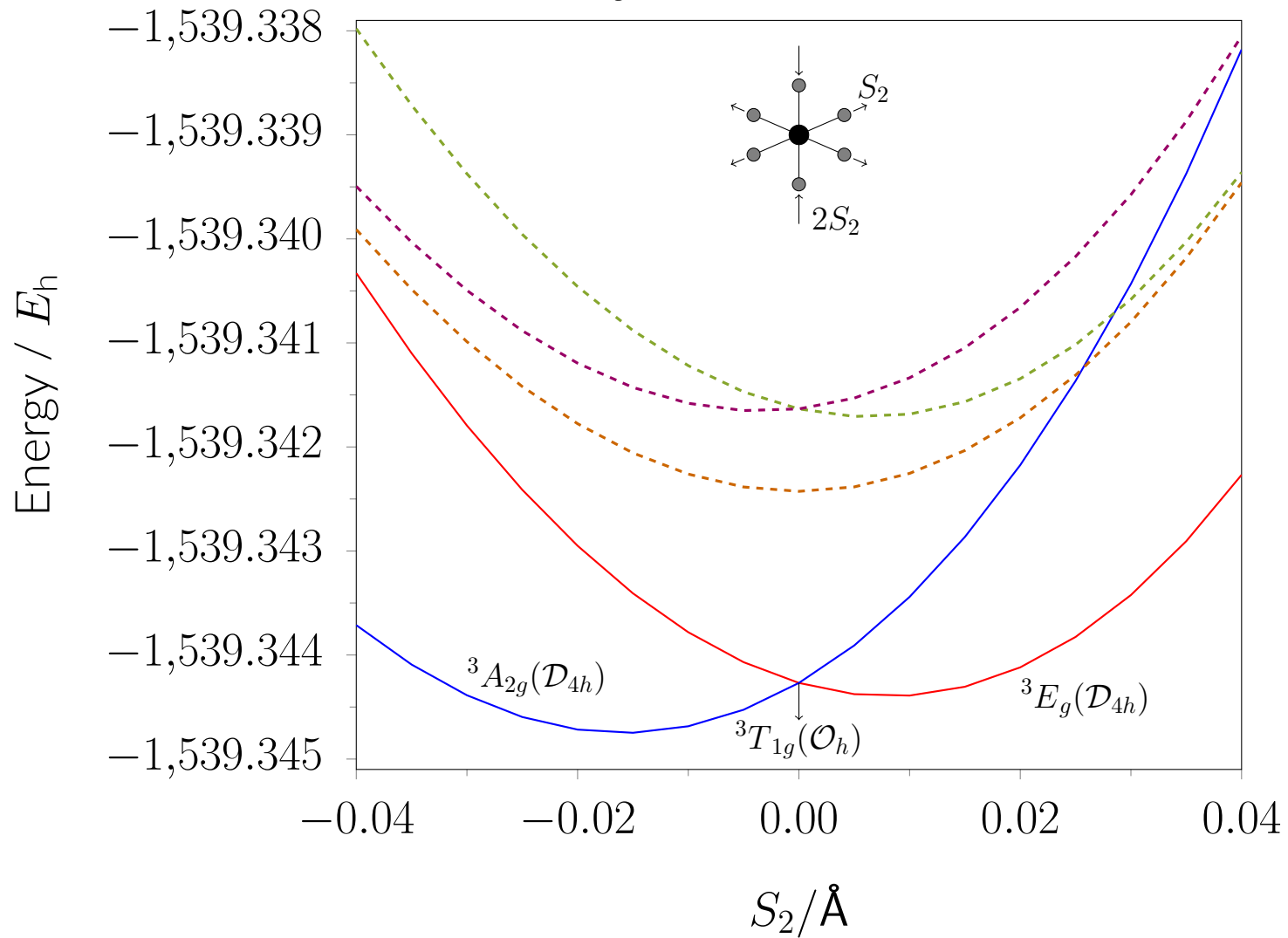


$E_g u$ mode, $\mathcal{O}_h \rightarrow \mathcal{D}_{4h}$  $E_g v$ mode, $\mathcal{O}_h \rightarrow \mathcal{D}_{2h}$ 