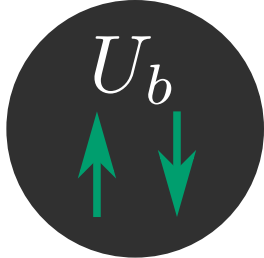


impurity site



$$J \vec{S}_d \cdot \vec{S}_0$$



zeroth site