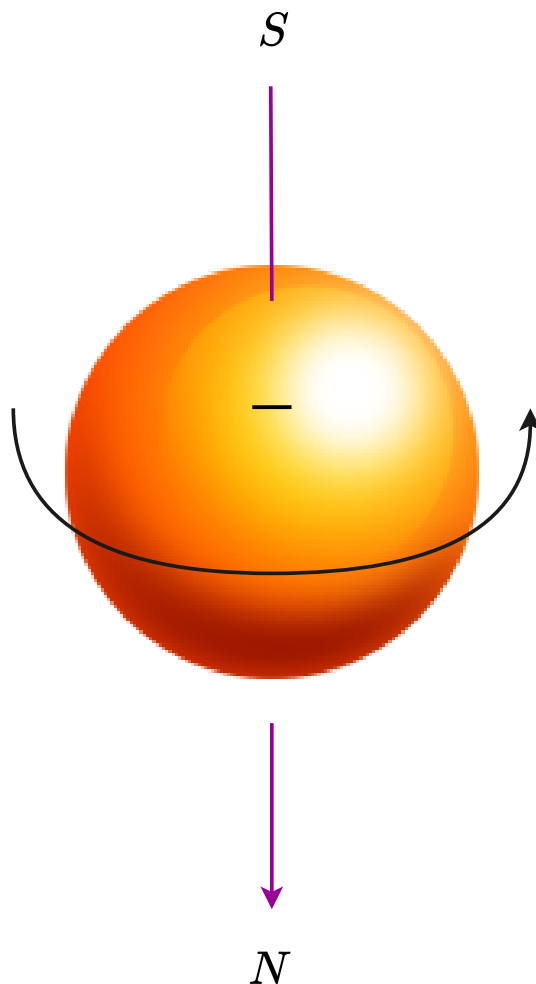


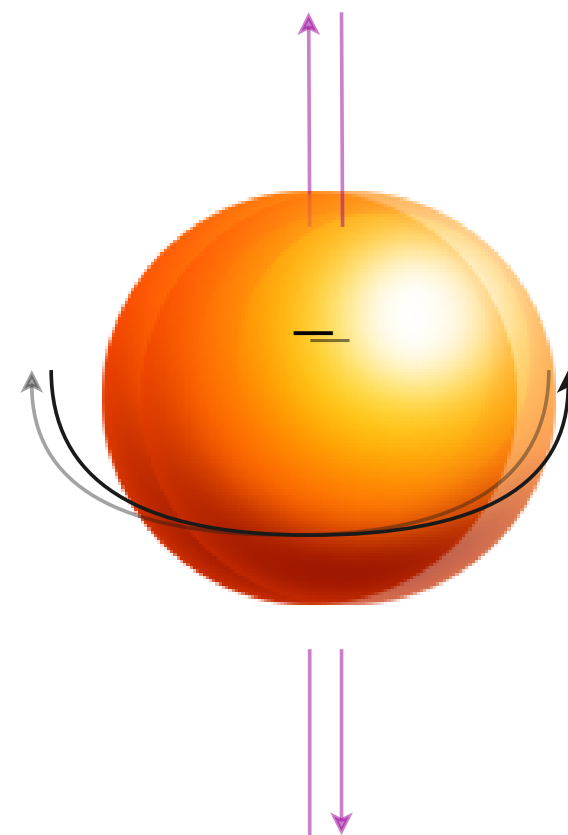
Spin Up

$$|\psi\rangle = |0\rangle$$



Spin Down

$$|\psi\rangle = |1\rangle$$



Superposition

$$|\psi\rangle = a|0\rangle + b|1\rangle$$