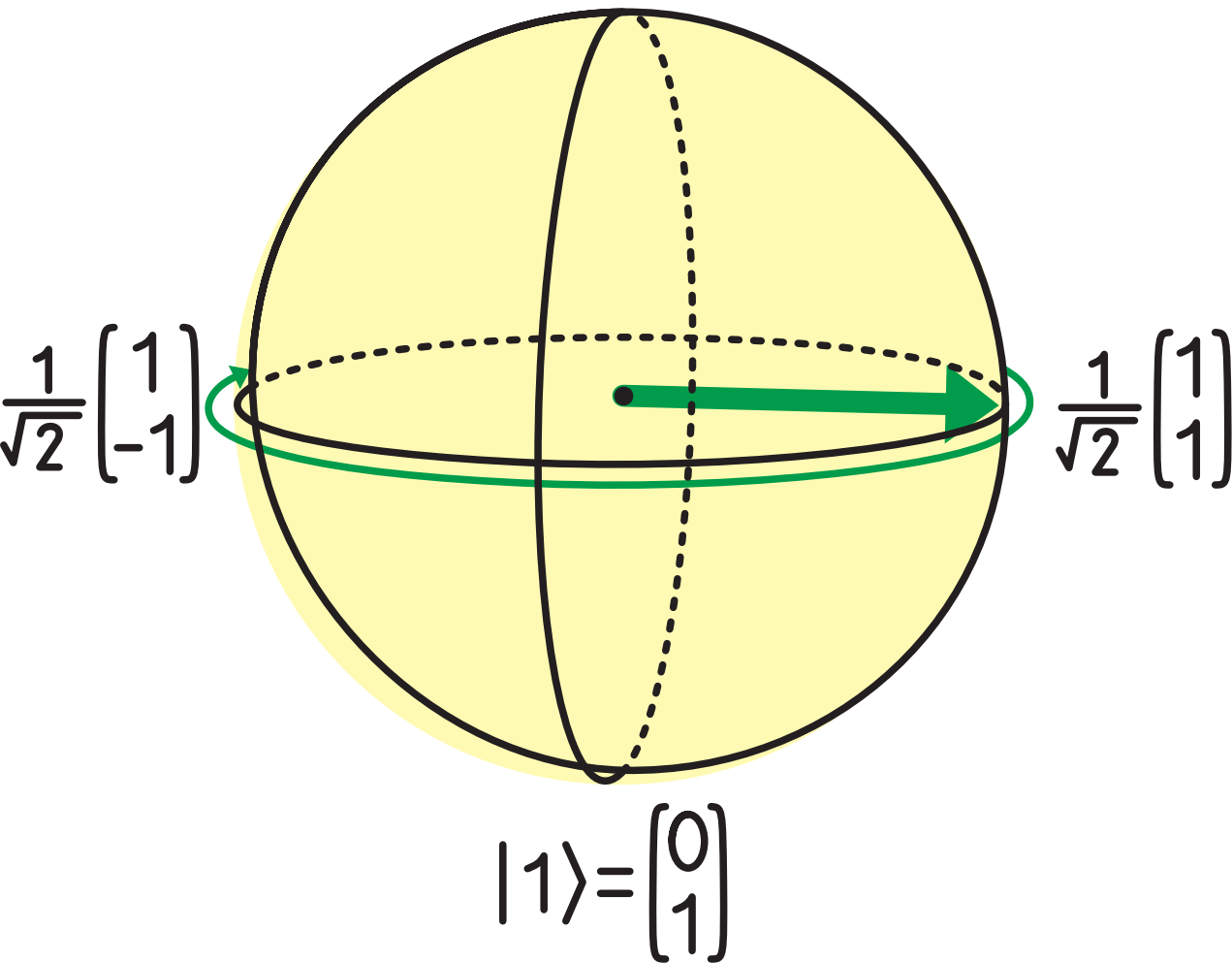


$$|0\rangle = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$$



$$|1\rangle = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$