

Pauli X basis:  $\text{Prob}\{+1\} = \text{Prob}\{-1\} = \frac{1}{2}$

Pauli Y basis:  $\text{Prob}\{+1\} = \text{Prob}\{-1\} = \frac{1}{2}$

Pauli Z basis:  $\text{Prob}\{+1\} = \text{Prob}\{-1\} = \frac{1}{2}$