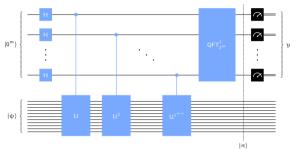
Phase estimation procedure



$$\begin{split} |\pi\rangle &= |\psi\rangle \otimes \frac{1}{2^m} \sum_{y=0}^{2^{m-1}} \sum_{x=0}^{2^{m-1}} e^{2\pi i x (\theta - y/2^m)} |y\rangle \\ \\ p_y &= \left| \frac{1}{2^m} \sum_{x=0}^{2^{m-1}} e^{2\pi i x (\theta - y/2^m)} \right|^2 \end{split}$$