

Basic phase kickback equations

Abstract

Equations typed in L^AT_EX to explain basic phase kickback circuit implemented with Qiskit in python.
Complete description available [here](#).

Equations

$$\frac{1}{\sqrt{2}}(|01\rangle + |11\rangle)$$
$$\frac{1}{\sqrt{2}}(|01\rangle + e^{i\frac{\pi}{4}} |11\rangle) = \frac{1}{\sqrt{2}}(|0\rangle + e^{i\frac{\pi}{4}} |1\rangle) \otimes |1\rangle$$