7/9/2021 OneNote

Coherent error: ZZ [bonus]

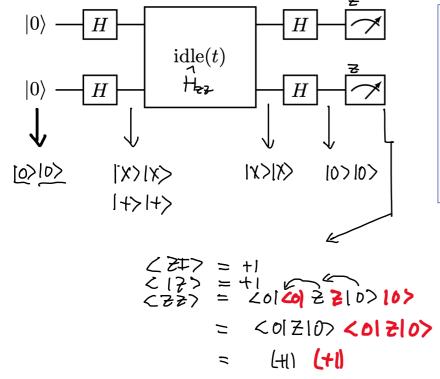
Friday, July 2, 2021 5:14 PM

Introduction to quantum noise

Coherent errors

Qiskit Global Summer School on Quantum Machine Learning

Zlatko K. Minev



= 41

(27) = 1

Now
$$22$$
 Enteraction
$$\hat{H} = \frac{1}{2} \frac{1}{1} \text{ w} \hat{Z}\hat{Z}$$

$$\hat{U}(t) = \exp(-i\frac{\pi}{2} + i\frac{\pi}{4})$$

$$= \exp(-i\frac{\pi}{2} + i\frac{\pi}{4})$$

$$= \cos(\frac{\pi}{2} + i\frac{\pi}{4}) + i\sin(\frac{\pi}{2}) + i\sin($$