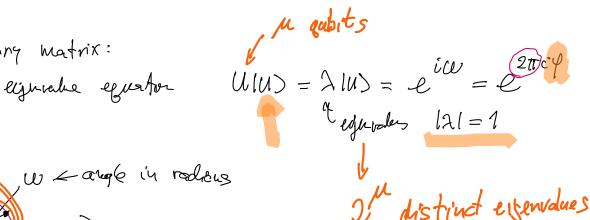
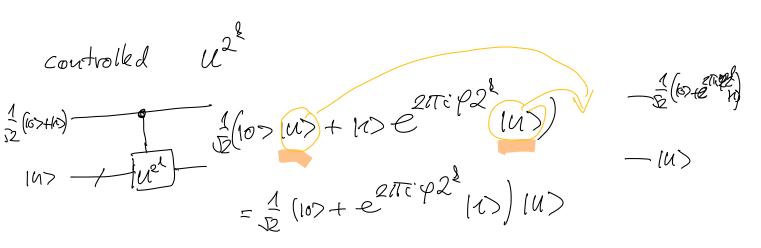
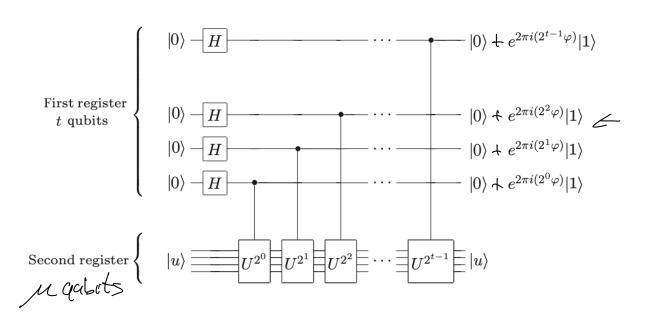
Quantum Phase estimation

Friday, 21 May 2021 16:31

U unitary matrix:





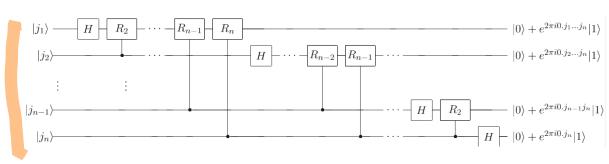


Phase estimation:

-> tasti estmate le equale e 211,4 to use OPF: we word to keep the as so much who we

lu>

QFT Ocantum Fourier tourson:



$$|f\rangle = |gin fin -- j_2 o_1\rangle$$

0<4<1

binary fraction:

deginal fractions
$$\frac{1}{3} = 0.33...$$

2 Ti O. L. Vita -~

gishit => Cirq

machine representation of cinters

little endan representation:

 $4_{10} = 100_{2}$

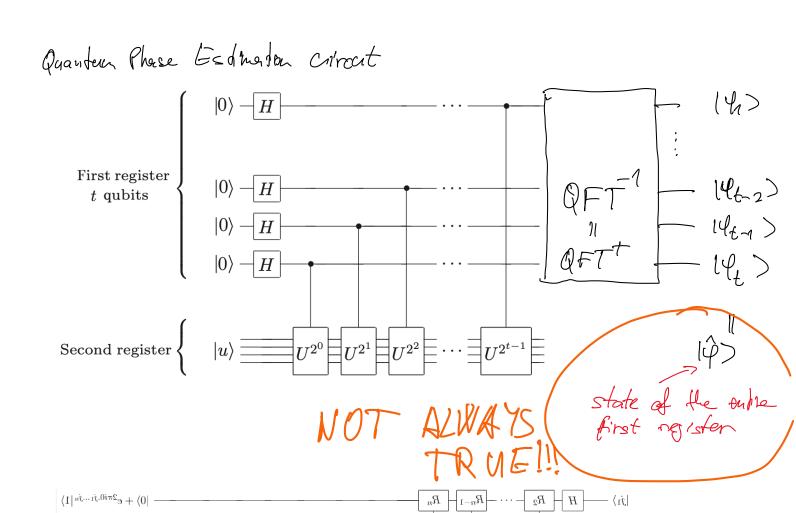
e least significant don't

mainframes (Alpha DEC):

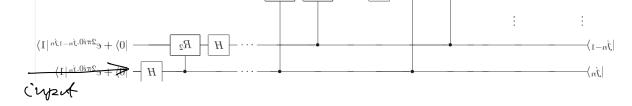
big endbu representation

40 = 001

 $|j_2\rangle$



 $H \longrightarrow R_{n-2} \longrightarrow R_{n-1}$



$$H^{+}=H$$
 $R_{\underline{k}}^{+}=R_{\underline{k}}=R^{1}$

what one these ophis " ! 4: angle(ox4<1)

binay fraction representates 1 ~ 0. ln & -- lan lt binary elsits

austhor symbol: \$ = inter Î= 4, 12 -- 16-14

if: f= 0. f, f2 ... fty ft EXACTLY

QPE corcuit 105°t - (-u²l 14)

QFT does to the complatations what DFT would do to the bester holdy the auphitedes

power spectrum: squared modules => probability distribution probability distribution after 1st hort of QPE

