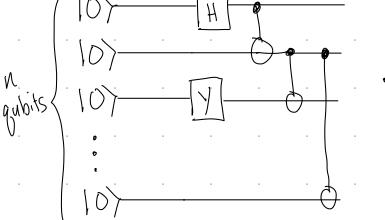
Many-Qubit Circuits

Learning Goals

Describe multigubit algorithms using circuits + kets

Multigubit Circuit





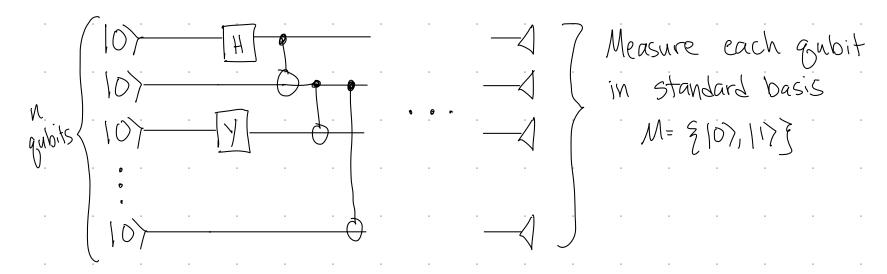
Physically:

B CNOT

If A= 117,

XB

Multigubit Circuit



| Y,)=

At the end of the algorithm, State can be written as

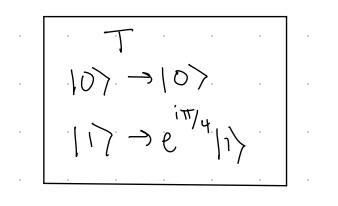
For n qubits, 2" standard basis states. Can't write all

Representing + Measuring N-gubit States

Miversal Gate Set Classically,

· Quantumly

def:



e e.g. e e