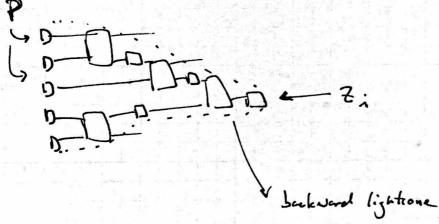
to grack 2022 - And teamwoles Linear Growth of QC complexity Jonas Haforkamp Complexity = min N 2 local gates in decomposition of some U C(v) extrandey difficult to bound be it find eventely reach P=NP talk about: what we can expect from typical systems what is e Brown + Sissema (huan) 157 (U) e (1)" linear growth legand satiration of entanglement entropy

buleword 0 bit o is contable Badeboard Alle ? to all other site light come sed to bit n Mone of Connection from a single qubit backward & all mitial qubits A circuit Course This provides a way to measure connectioness in the wehitestore \$ related, influences the expected bonds on complexity of a cicuit Every unitary can be implemented with O(4") many gates uperland $C(0) \geq \frac{T}{q} - \frac{n}{2}$ T= number of disjoint backward lightcomes in an architecture untit... T7, 47-1
n gates

ranke of a matrix = num of linearly independent rows or columns

"Conjugate " a unitary operator ...

the Every pauli operator in a backward lightnere can be conjugated (commuted) with clifford group U gates such that the requirement circuit can be written as a single Zingate



Now do you commete P operators through a circuit?