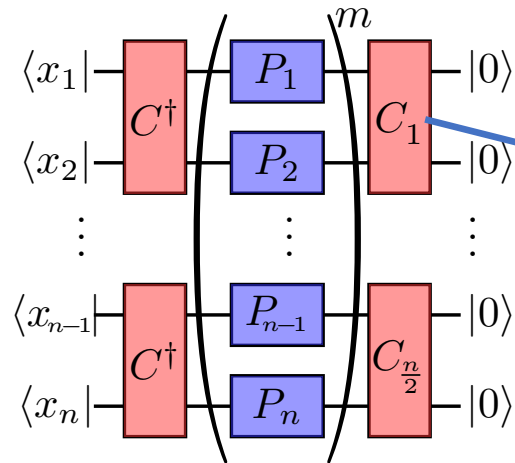


Experiments for Steps 1 and 2



1

II
XY
ZX
YZ

II
YX
XZ
ZY

Choose one MUB from this set randomly for each pair of qubits

Two qubit
Cliffords

C_1

C_2

...

$C_{\frac{n}{2}}$

C_1

C_2

...

$C_{\frac{n}{2}}$

C_1

C_2

...

$C_{\frac{n}{2}}$

$\frac{n}{2}$

Experiment
Count

1

4

4

.

.

.

4

=====
 $2n + 1$

2

II	II	II	II	II
IX	IZ	IY	XY	YX
XI	ZI	YI	ZX	XZ
XX	ZZ	YY	YZ	ZY

Cycle through 2 qubit MUBS (other than the one chosen in step 1)

C_1

C_2

...

$C_{\frac{n}{2}}$

3