1 fair coin operator

$$H = \frac{U}{l} \begin{bmatrix} 1 & -l \\ l & l \end{bmatrix} = \frac{U}{l000+(1)} \langle 0l + \frac{U}{l000-(1)} \langle 1l \rangle$$

3) Four aided downtown Con state 157 EHC = { 9,107+9,117+0,2/2)+9,13): 00,01,02,03 EQ

1 Four Sided Patr Con Operator

$$H_{1} = \frac{5}{7} \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & -1 \\ 1 & -1 & -1 \\ 1 & 1 & 1 \end{bmatrix} = \frac{1}{(b) + (1) + (5) - (3)} (a) + \frac{1}{(b) + (1) - (5) + (1)} (a)$$

$$\frac{1}{(b) + (1) + (5) + (3)} (a) + \frac{1}{(b) + (1) - (1) - (5) + (1)} (a)$$

$$\frac{1}{(b) + (1) + (5) + (3)} (a) + \frac{1}{(b) + (1) - (1) - (1)} (a)$$

$$\frac{1}{(b) + (1) + (5) + (3)} (a) + \frac{1}{(b) + (1) - (1)} (a)$$

$$\frac{1}{(b) + (1) + (5) + (3)} (a) + \frac{1}{(b) + (1) + (1) - (1)} (a)$$

5) Fate check

$$|H_{\rm D}| = |\langle 7|H|7\rangle| = \frac{1}{16}$$
, all moths demot of H how some aboute value $\frac{1}{10}$, $|H_{\rm D}| = |\langle 7|H|7\rangle| = \frac{1}{14}$ thus unblosed $|G|$ 0.

#2 location on the board

$$|\psi\rangle\in\mathcal{H}_{p}=\left\{\begin{array}{l} \sum\limits_{k=0}^{p}Q_{k}|k\rangle: Q_{0}=Q_{0}\in\mathcal{L}_{p}\\ |Q_{0}|=|Q_{0}|\rangle:=|Q_{0}|\\ |Q_{0}|=|Q_{0}|\rangle:=|Q_{0}|\\ |Q_{0}|=|Q_{0}|\\ |Q_{0$$

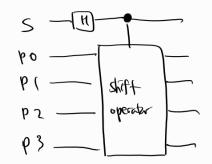
#3 grantum can with drift operator

[= 112 X0] + \(\sum_{H} | \kok41

$$\mathcal{K} = \left[I \otimes I \otimes I \otimes X \right] \left[I \otimes I \otimes \left(I \otimes (o \times o) + \times \otimes (I \times i) \right) \right]$$

$$\left[I \otimes (I \otimes | o \otimes_{eq} + I \otimes | o \otimes_{e} | + I \otimes (| o \otimes_{e} | o \otimes_{e} | + I \otimes | o \otimes_{e} | + I \otimes_{e} | + I \otimes_{e} | o \otimes_{e} | + I \otimes_{e} |$$

when
$$(0000) = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$$
, $(0001) = \begin{bmatrix} 0 \\ 10001 \end{bmatrix}$ $(0001) = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$



#4 Chites & Ladder Operator : CL

$$C\Gamma = \sum_{R} \frac{Fe'k43J'PB}{[KXFI + |IOX3| + |3X10| + |IBX J| + |JX13|]}$$

$$|\widetilde{J}_{2}\rangle - |C| = |\widetilde{J}_{2}\rangle - |X| + |X|$$

$$|\widetilde{J}_{1}\rangle - |C| = |\widetilde{J}_{1}\rangle - |X| + |X|$$

$$|\widetilde{J}_{2}\rangle - |X|$$

$$|\widetilde{J}_{2}\rangle - |X| + |X|$$

$$|\widetilde{J}_{2}\rangle - |$$

1001 X1001 + 100 X 1001

1 step

