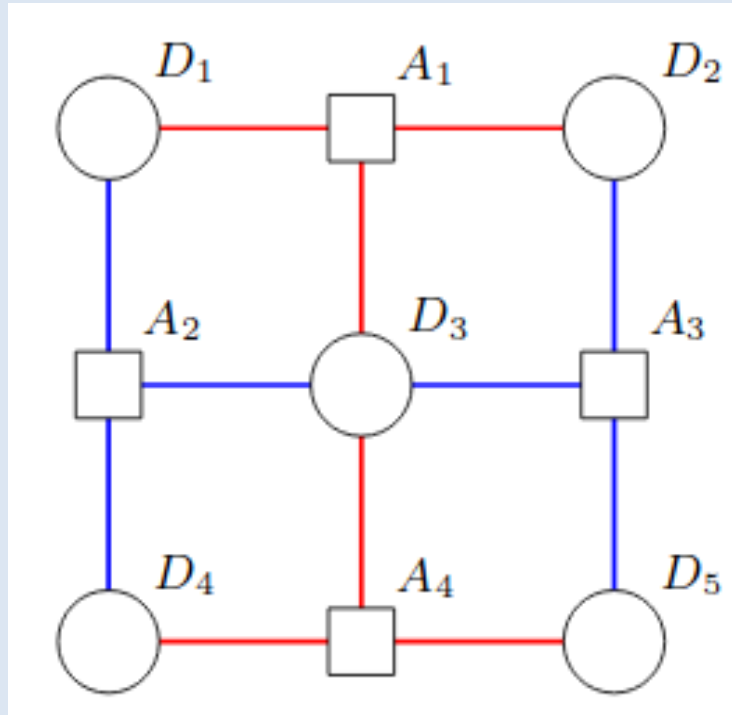


## Stabilizers of $\mathcal{S}_{[[5,1,2]]}$



circles: Data Qubits

$(D_i, i = 1, 2, \dots, n = 5)$

squares: Ancillary Qubits

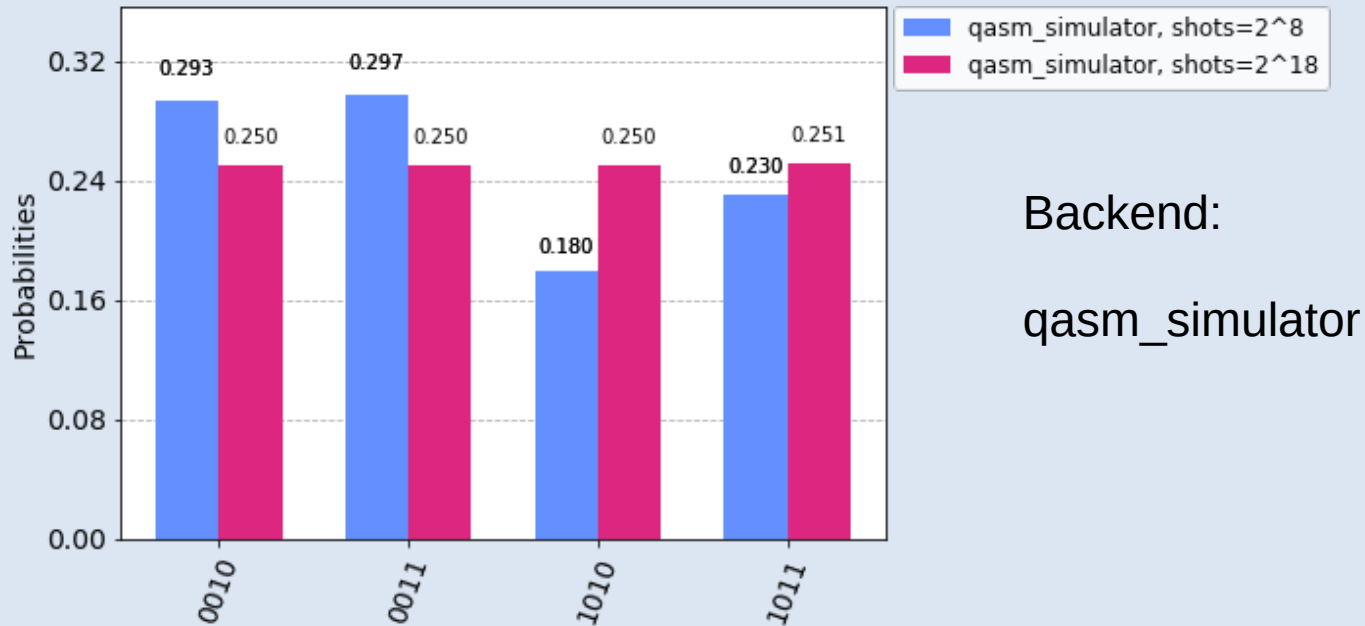
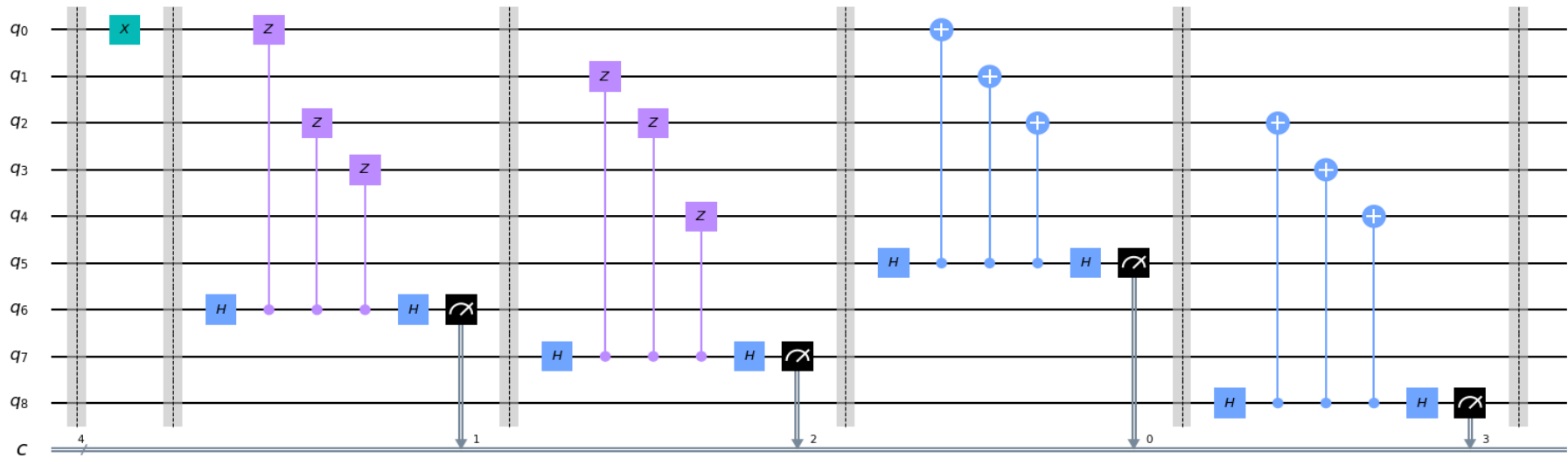
$(A_i, i = 1, 2, \dots, m = n - k = 4)$

red edges: CX gate connection

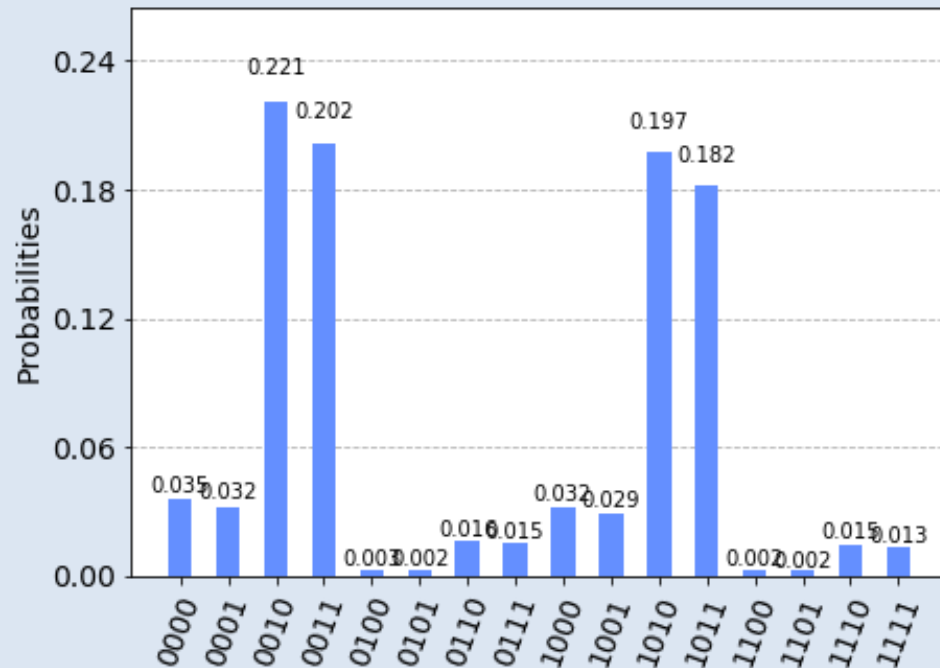
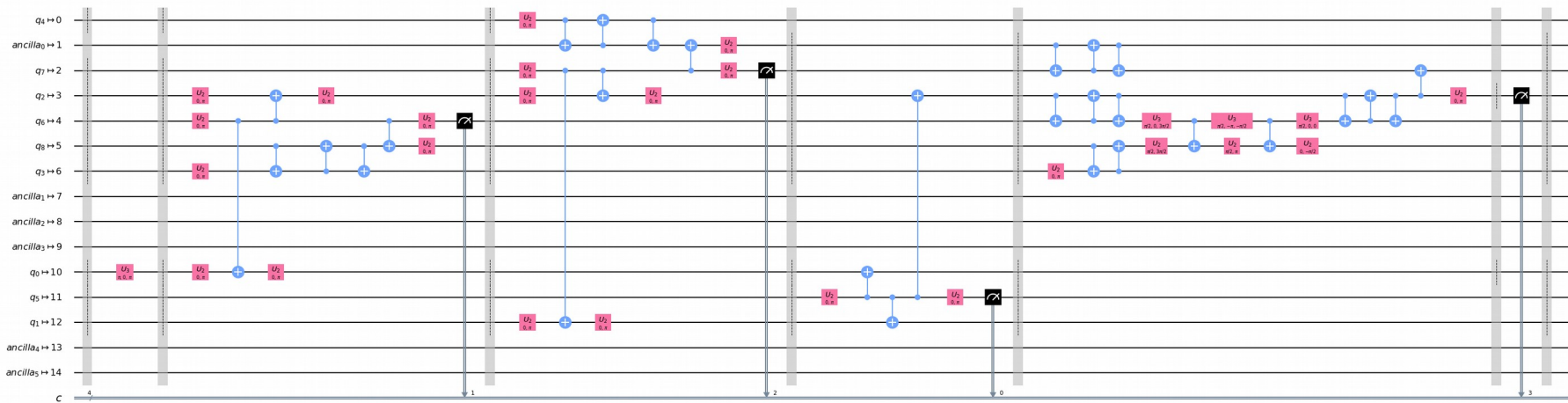
blue edges: CY gate connection

(Figure from J. Roffe's review paper, Figure 8a,  
<https://arxiv.org/pdf/1907.11157.pdf#page=18>)

# Stabilizers of $\mathcal{S}_{[[5,1,2]]}$



# Stabilizers of $\mathcal{S}_{[[5,1,2]]}$



aer simulator with ibmq\_16\_melbourne noise model, shots= $2^{19}$

Backend:

Aer simulator,  
ibmq\_16\_melbourne noise model