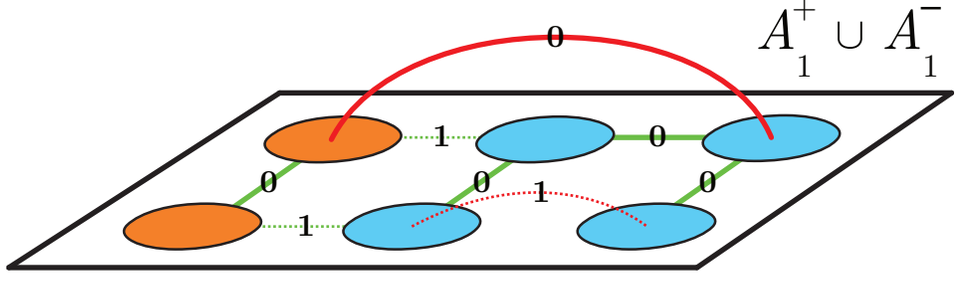
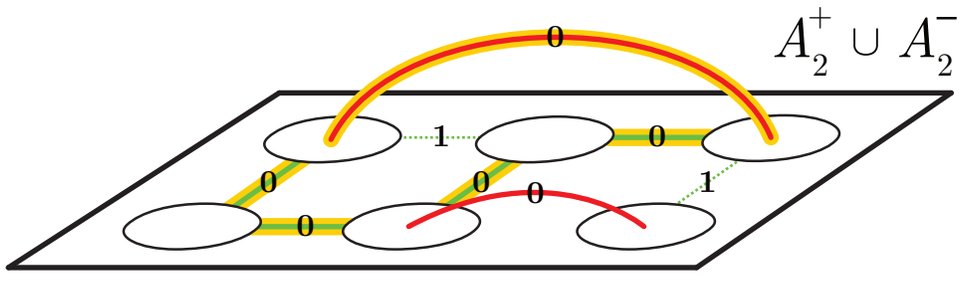


$\forall i, j \in V \quad \text{connected}(i, j; A_1^+) \Rightarrow \textbf{not} \;\; \text{mutex}(i, j; A_1^+, A_1^-)$

$$\mathcal{C}^-(A_1, \mathcal{G}, w) = \emptyset$$

$$x^{A_1} \in \mathsf{SC}(\mathcal{G}, w)$$



$\exists \; i, j \in V \quad \text{connected}(i, j; A_2^+) \quad \text{and} \quad \text{mutex}(i, j; A_2^+, A_2^-)$

$$\mathcal{C}^-(A_2, \mathcal{G}, w) \neq \emptyset$$

$$x^{A_2} \notin \mathsf{SC}(\mathcal{G}, w)$$