0.1 Attempting to encode the block operator

$$P = a.a, \quad Q = \tau.b.b$$

$$\rho_{f_1}(\partial_{H_1}[P||\text{first}(\text{next}^\infty)]) = a_{\text{first}}.a \quad \text{and} \quad \rho_{f_1}(\partial_{H_1}[Q||\text{first}(\text{next}^\infty)]) = \tau.b_{\text{first}}.b$$

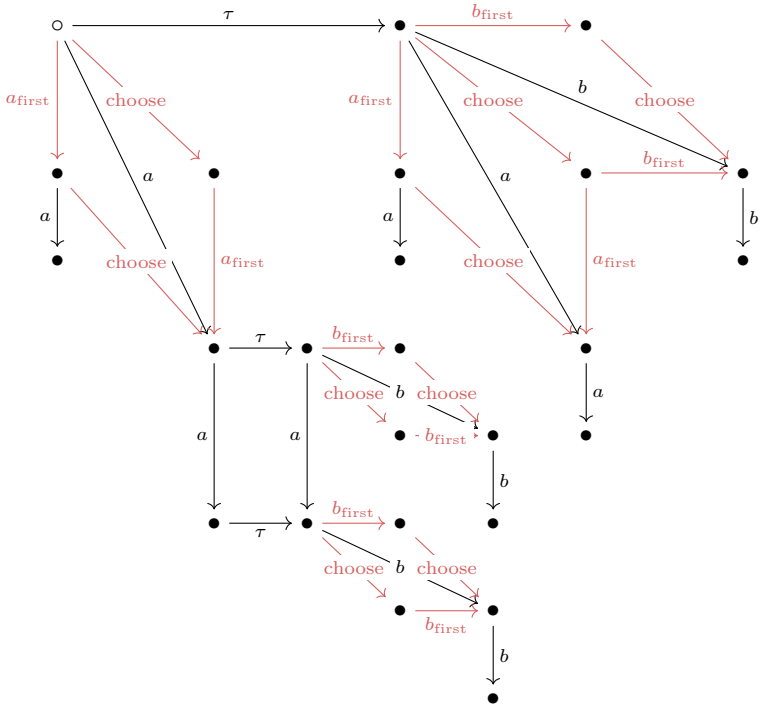
Define a new communication choose. Communications with choose:

$$\text{choose}|a_{\text{first}} = a$$

There is also no communication between a_{first} and b_{first}
The graph of

$$\partial_{H_0}(\rho_{f_1}(\partial_{H_1}[P||\text{first}(\text{next}^\infty)])||\text{choose}||\rho_{f_1}(\partial_{H_1}[Q||\text{first}(\text{next}^\infty)]))$$

is represented in the following diagram



Which when simplified leads to the following diagram: