$$\vec{x} \in \{0,1\}^{\lambda}$$

$$\vec{\theta} \in \{+,\times\}^{\lambda}$$

$$\vec{E}xtract \ \hat{\theta}$$

$$a_0 = Enc_{\vec{x}_{l_0}}(m_0)$$

$$a_1 = Enc_{\vec{x}_{l_1}}(m_0)$$

$$Compute \ b$$

$$|x_{\theta^1}^1\rangle|x_{\theta^2}^2\rangle...|x_{\theta^{\lambda}}^{\lambda}\rangle$$

$$c_i = comm(\hat{\theta}_i, \hat{x}_i)$$

$$T$$

$$\vec{\theta}$$

$$\vec{\theta}$$

$$\beta$$

$$a_0, \beta_1$$

 $\hat{ heta} \in \{+, imes\}^{\lambda}$ \downarrow Measurement $\vec{\hat{x}} \in \{0, 1\}^{\lambda}$

 $I_b = \{i : \theta_i = \hat{\theta}_i\} \setminus T$ $I_{\overline{b}} = \{i : \theta_i \neq \hat{\theta}_i\} \setminus T$

 $m_b = Dec_{\vec{x}_{I_b}}(a_b)$