$$S-\underbrace{U^n}_{\mbox{Alice}(\mathcal{A})}\underbrace{Alice}_{\mbox{X^k}}\underbrace{P_{Y^kZ_{i-2}^k,k^k}}_{\mbox{Z_{i-2}^k}}\underbrace{V^k}_{\mbox{Bob}}\mbox{Bob}(\mathcal{B}) \to \hat{U}^n$$

$$\xrightarrow{\mbox{Non-colluding eavesdroppers}}\underbrace{Z_{i}^k}_{\mbox{Z_{i-2}^k}}\underbrace{Eve_1(\mathcal{E})}_{\mbox{Z_{i-2}^k}} \to \hat{S}_i$$

$$\xrightarrow{\mbox{Z_{i-2}^k}}_{\mbox{Z_{i-2}^k}}\underbrace{Eve_1(\mathcal{E})}_{\mbox{Z_{i-2}^k}} \to \hat{S}_M$$