



SOURCE CODING:

$$M_1: \mathbb{R}^L \rightarrow \{1, 2, \dots, 2^{LR_s}\}$$

$$M_2: \{1, 2, \dots, 2^{LR_s}\} \rightarrow \mathbb{R}^L$$

CHANNEL CODING:

$$M_4: \{1, 2, \dots, 2^{LR_s}\} \rightarrow \{1, 2, \dots, 2^{LR}\}$$

$$M_5: \mathbb{R}^L \times \{1, 2, \dots, 2^{LR}\} \rightarrow \{1, 2, \dots, 2^{LR_s}\}$$

ESTIMATION:

$$M_3: \mathbb{R}^L \times \{1, 2, \dots, 2^{LR_s}\} \rightarrow \mathbb{R}^L$$