

$$\mathbf{M}_{\text{gvn}} : \begin{array}{|c|} \hline \mathbf{y}^{(+)} \\ \hline \end{array} = \begin{array}{|c|c|} \hline & \\ \hline \mathbf{K}_1 & \\ \hline \end{array} \begin{array}{|c|} \hline \mathbf{y}_1^{(-)} \\ \hline \end{array} + \cdots + \begin{array}{|c|c|} \hline & \\ \hline \mathbf{K}_{l_k} & \\ \hline \end{array} \begin{array}{|c|} \hline \mathbf{y}_{l_k}^{(-)} \\ \hline \end{array}$$

$$\mathbf{M}_{\text{prp}}^{(\text{j})} : \begin{array}{|c|} \hline \mathbf{y}^{(+)} \\ \hline \end{array} = \begin{array}{|c|c|} \hline & \\ \hline \tilde{\mathbf{K}}_1 & \\ \hline \end{array} \begin{array}{|c|} \hline \mathbf{y}_1^{(-)} \\ \hline \end{array} + \cdots + \begin{array}{|c|c|} \hline & \\ \hline \tilde{\mathbf{K}}_{l_k} & \\ \hline \end{array} \begin{array}{|c|} \hline \mathbf{y}_{l_k}^{(-)} \\ \hline \end{array}$$

$$+ \begin{array}{|c|c|} \hline & \\ \hline \tilde{\mathbf{K}}_{l_k+j} & \\ \hline \end{array} \begin{array}{|c|} \hline \mathbf{y}_{l_k+j}^{(-)} \\ \hline \end{array}$$

$$\textbf{Find:} \quad \operatorname{argmax}_j I \left( \mathbf{y}^{(+)}, \mathbf{M}_{\text{prp}}^{(\text{j})} \middle| \mathbf{M}_{\text{gvn}} \right)$$