

$$\left(\begin{array}{c|c} A & E \\ \hline & \begin{array}{cc} 1 & 0 \\ & 1 \\ 0 & & 1 \end{array} \end{array} \right)$$

$$P^E_{\pi} \cdot B \cdot P_{\pi} - \hat{B} \cdot \left(\begin{array}{c|c} A_1 & 0 \\ \hline A_2 & E_1 \end{array} \right)$$