

trans

$$\pi \in {}_n\mathcal{S} \subset {}^n\mathbb{C}_n^{\cup}$$

cis

$$\begin{array}{c|c|c|c} \vartheta^1 & 0 & 0 & 0 \\ \hline 0 & \vartheta^i & 0 & 0 \\ \hline 0 & 0 & \vartheta^j & 0 \\ \hline 0 & 0 & 0 & \vartheta^n \end{array} \in {}_n\mathbb{T} \subset {}^n\mathbb{C}_n^{\cup}$$

trancis

$$\pi:\vartheta \in {}_n\mathcal{S} \ltimes {}_n\mathbb{T} \rightarrow {}_n\mathbb{T} \ni \vartheta^{-1}\pi\vartheta$$

$$\vartheta^{-1}\pi\vartheta = \begin{array}{c|c|c|c} \vartheta^{\pi_1} & 0 & 0 & 0 \\ \hline 0 & \vartheta^{\pi_i} & 0 & 0 \\ \hline 0 & 0 & \vartheta^{\pi_j} & 0 \\ \hline 0 & 0 & 0 & \vartheta^{\pi_n} \end{array}$$