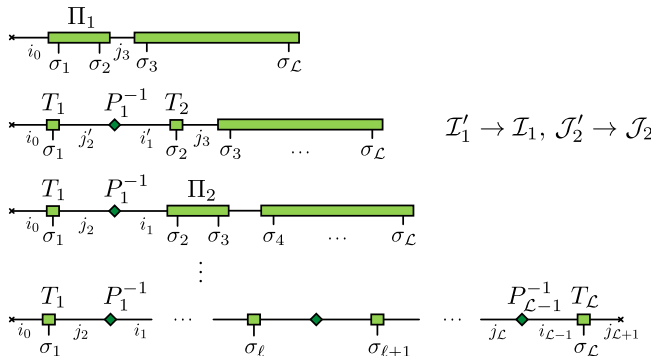


a)  $\text{rand}(\hat{\sigma}), \mathcal{T}_{\hat{\sigma}} \neq 0$

$$\mathcal{I}_\ell = \{(\hat{\sigma}_1, \dots, \hat{\sigma}_\ell)\} \quad \forall \ell$$

$$\mathcal{J}_\ell = \{(\hat{\sigma}_{\ell+1}, \dots, \hat{\sigma}_\mathcal{L})\}$$

b)



c)

