$$egin{array}{cccc} \{\hat{
ho}_i\} \ & \cdots & & \mathbb{P} = \{p_i\}, & p_i = \mathrm{tr}[(\hat{
ho}_i^0 \otimes \hat{I}^1)(\ldots)] \ & = \mathrm{tr}[\hat{
ho}_i \mathrm{tr}_1[(\ldots)]] \end{array}$$

 $\{\hat{\rho}_i\}$