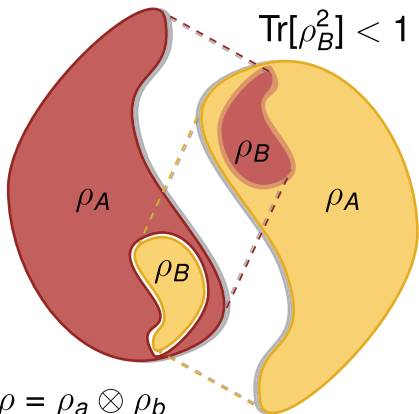


$$\rho \neq \rho_a \otimes \rho_b$$

$$\text{Tr}[\rho^2] = 1$$

$$\text{Tr}[\rho_B^2] < 1$$



$$\rho = \rho_a \otimes \rho_b$$

$$\text{Tr}[\rho^2] < 1$$

$$\text{Tr}[\rho_B^2] = 1$$