

# Quantum Entanglement

## 2.1 Quantum Entanglement

Def. & Charact:

$|\psi\rangle \in \mathcal{H}_{AB} \neq |\psi\rangle \otimes |\psi\rangle$  ( $|\psi\rangle \in \mathcal{H}_A, |\psi\rangle \in \mathcal{H}_B$ )

def: A pure or mixed quantum state which is not separable is **entangled**.

\* attention:  $\rho^{AB} \neq \rho^A \otimes \rho^B$

对于混合态, 有

$$\rho^{AB} = \sum_{r=1}^n p_r \rho_r^A \otimes \rho_r^B, \quad \sum_r p_r = 1$$

pure state tensor product

$$\begin{pmatrix} \alpha_0 \\ \alpha_1 \end{pmatrix} \otimes \begin{pmatrix} \beta_0 \\ \beta_1 \end{pmatrix} \begin{cases} \begin{pmatrix} \alpha_0 \beta_0 \\ \alpha_0 \beta_1 \\ \alpha_1 \beta_0 \\ \alpha_1 \beta_1 \end{pmatrix} & \text{Separable} \\ \begin{pmatrix} c_0 \\ c_1 \\ c_2 \\ c_3 \end{pmatrix} & \text{Entangled} \end{cases}$$

\* Property: For maximally entangled state:

$$|\Phi_d^+\rangle = \frac{1}{\sqrt{d}} \sum_{i=1}^d |i\rangle |i\rangle$$

eg  $|\Phi_2^+\rangle_{AB} = \frac{1}{\sqrt{2}} (|00\rangle + |11\rangle)$

$$\rho_A = \text{Tr}_B (|\Phi_2^+\rangle_{AB} \langle \Phi_2^+|) = \frac{1}{2} I_A$$

LOCC 操作: Local operations & Classical communications  $\Rightarrow$  unitary dynamic action / measurements

\* LOCC T, 纠缠度不能增加  $\Rightarrow$  exchange information

## 2.2 Separability Criterion

def: separable state can be prepared in LOCC

A pure state is separable only if

$$\rho_{AB\dots Z} = \rho_A \otimes \rho_B \otimes \dots \otimes \rho_Z$$

reduced density matrices for subsystem

for mixed state

$$\rho_{AB\dots Z} = \sum_i p_i \rho_i^A \otimes \rho_i^B \otimes \dots \otimes \rho_i^Z$$

Strong Separability criterion:

\* positive partial transpositions (PPT)

if  $\rho = \sum_i p_i \rho_i^A \otimes \rho_i^B \geq 0$

$\Rightarrow \rho^{TA} = \sum_i p_i (\rho_i^A)^T \otimes \rho_i^B \geq 0$ , then separable

非正规态  $\Rightarrow$  非正规态  $\langle m| \rho^{TA} |n\rangle > 0$   
 $= \langle m| \langle v| \rho_{AB} |n\rangle |v\rangle$

\* 可证明  $2 \otimes 2, 2 \otimes 3$  情形 PPT  $\Leftrightarrow$  separable

eg  $|\psi\rangle = |00\rangle + |11\rangle$

$$\rho = \begin{pmatrix} 1/2 & 0 & 0 & 1/2 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1/2 & 0 & 0 & 1/2 \end{pmatrix} \xrightarrow{\text{partial transposition}} \rho^{TA} = \begin{pmatrix} 1/2 & 0 & 0 & 0 \\ 0 & 0 & 1/2 & 0 \\ 0 & 1/2 & 0 & 0 \\ 0 & 0 & 0 & 1/2 \end{pmatrix}$$

$\rho^{TA}$  本征值  $(-1/2, 1/2, 1/2, 1/2)$ , 非正规

\* other criterion: Majorization / Reduction criterion



Entanglement witness (纠缠判据)

def:  $\text{Tr}(W\rho_{AB}) \geq 0$

W 为可观测量, 满足  $\left\{ \begin{array}{l} \text{至少一个本征值} \\ \text{对所有直积态有} \\ \langle \psi_A | \langle \psi_B | W | \psi_A \rangle | \psi_B \rangle \geq 0 \end{array} \right.$



pf:  $C$  be convex, complex  
 exist a hyper-plane  
 separate  $p$  from  $S$

# Quantum Information V

**JL Elias**



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