

Off-diagonal geometric phase

Can be decomposed into projective phases and Bargmann Invariants

Let

$$\begin{aligned} \varphi_1 &= \varphi_i(\psi_j(s_1), \psi_j(s_2)) \\ &= \arg \langle \psi_j(s_1) | i \rangle \langle i | \psi_j(s_2) \rangle \end{aligned}$$

$$\begin{aligned} \varphi_2 &= \varphi_i(\psi_k(s_1), \psi_k(s_2)) \\ &= \arg \langle \psi_k(s_1) | i \rangle \langle i | \psi_k(s_2) \rangle \end{aligned}$$

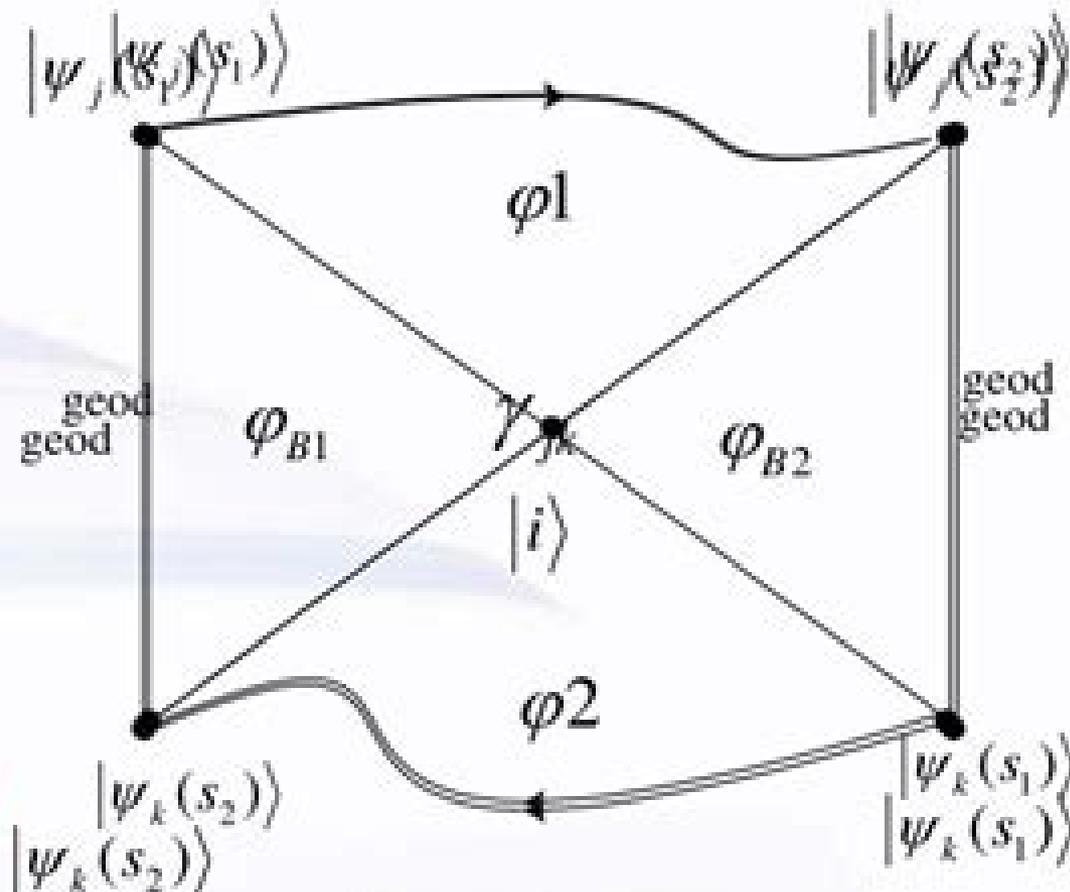
The off-diagonal geometric phase is:

$$\gamma_{jk} = \varphi_{B1} + \varphi_{B2} + \varphi_1 + \varphi_2$$

n projective phases = $n(n-1)$ off-diagonal phases

where $\varphi_{B1} = \arg \langle \psi_j(s_1) | \psi_k(s_2) \rangle \langle \psi_k(s_2) | i \rangle \langle i | \psi_j(s_1) \rangle$

$$\varphi_{B2} = \arg \langle \psi_k(s_1) | \psi_j(s_2) \rangle \langle \psi_j(s_2) | i \rangle \langle i | \psi_k(s_1) \rangle$$



Geometric Phase In Quantum Systems

Yicheng Fang



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