

سمینار هفتگی گروه اطلاعات کوانتومی
سه‌شنبه ۱۳۹۴/۸/۵، ساعت ۱۵:۰۰، اتاق شورای دانشکده‌ی فیزیک

Systematics of entanglement distribution with separable states

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Abstract

A detailed and general account of entanglement generation by separable states is given. It is shown how Bell states, and GHZ states can be shared between distant parties if they suitably manipulate flying ancillas between themselves. It is proved that the flying ancillas remain separable with all the other states at all stages.