

Generation of an Entangled State of Two Three-Level Superconducting Quantum Interference Devices in Cavity

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(Received: 2005-7-11; Revised:)

Abstract: We propose a scheme for generating a maximally entangled state of two three-level superconducting quantum interference devices (SQUIDs) by using a quantized cavity field and classical microwave pulses in cavity. In this scheme, no quantum information will be transferred from the SQUIDs to the cavity since the cavity field is only virtually excited. Thus, the cavity decay is suppressed during the entanglement generation.

PACS: 42.50.Dv, 85.25.Dq, 03.65.Ud

Key words: entanglement, superconducting, cavity

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