

Exact Solution of the Milburn Equation for the Two-Mode Two-Photon Jaynes-Cummings Model

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(Received: 1999-12-10; Revised: )

Abstract: We adopt an algebraic method to study the two-mode two-photon Jaynes-Cummings model governed by the Milburn equation and find an exact solution of Milburn equation of the system. The influence of the intrinsic decoherence on the nonclassical effects of the system is also discussed.

PACS: 42.50.Dr, 32.80.-t, 02.20.-a, 03.65.Fd

Key words: atom-field interaction, intrinsic decoherence

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