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Time Evolution of a Two-mode Jaynes-Cummings Model in The Presence of Pair-coherent States

Gou, Shih-Chuan

Abstract

A two-mode Jaynes-Cummings model is investigated with the initial field states in the pair-coherent states. The time evolution of the system including the atomic occupation probability and the photon statistics are shown. Cyclic quantum evolution is found in the special case of pair-coherent states.