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Spectra of the jaynes-cummings model in presence of a second harmonic generation

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Abstract

Dipole and cavity field transient spectra are investigated for a modified Jaynes-Cummings (JC) model due to the presence of a second harmonic generation (SHG) cavity field. For initially de-excited atom and field in a coherent state, detuning effects due to SHG affects the symmetry and splitting structure of both spectra. © 2009 World Scientific Publishing Company.

Author Keywords

Fluorescent and transmitted spectra; Modified JC Model; SHG

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