

Generation of W-Type Entangled Coherent States of Three-Cavity Fields by a Driving Classical Field

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Abstract: A scheme is proposed to generate the W-type entangled coherent states of three-cavity field. The scheme is based on the resonant atom-field interaction, thus the interaction time between the atom and the cavity is greatly reduced, which is important in view of decoherence. Furthermore, the scheme does not need accurate adjustment of the interaction time.

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Key words: resonant interaction, driving classical field, W-type entangled coherent states

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