2001 Vol. 35 No. 6 pp. 665-668 DOI:

Teleportation of Unknown Superpositions of Collective Atomic Coherent States ZHENG Shi-Biao

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Abstract: We propose a scheme to teleport an unknown superposition of two atomic coherent states with different phases. Our scheme is based on resonant and dispersive atom-field interaction. Our scheme provides a possibility of teleporting macroscopic superposition states of many atoms first time.

PACS: 03.67.-a, 03.65.Bz, 42.50.Dv

Key words: teleportation, superposition, atomic coherent state

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