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Berry Phases for the L-S Coupled System in a Time-Dependent Magnetic Field

YAN Feng-Li and YANG Lin-Guang

Department of Physics, Hebei Normal University, Shijiazhuang 050016, China
CCAST (World Laboratory), P.O. Box 8730, Beijing 100080, China
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Abstract: By the unitary transformation method, the instantaneous energy eigenstates of the L-S coupled system in a time-dependent magnetic field, hence the Berry phases, are calculated.

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Key words: L-S coupled system, instantaneous energy eigenstate, Berry phase

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