Double-Pulse Spectra and Closed-Orbits: Photodetachment of H⁻ in Parallel Electric and Magnetic Fields

 DU Meng-Li

Institute of Theoretical Physics, Academia Sinica, P.O. Box 2735, Beijing 100080, China

Abstract: We derive a formula for double-pulse spectra from closed-orbit theory. We then calculate the double-pulse photodetachment spectra of H⁻ in the presence of parallel electric and magnetic fields. We analyze the spectra in terms of closed-orbits of the system. We suggest a method for the measurement of a phase associated with each closed-orbit.

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