

Evolutions of Yang Phase Under Cyclic Condition and Adiabatic Condition

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Abstract: There are three non-integrable phases in literatures: Berry phase, Aharonov-Anandan phase, and Yang phase. This article discusses the evolutions of Yang phase under the cyclic condition and the adiabatic condition for the general time-dependent harmonic oscillator, thus reveals the intimate relations between these three non-integrable phases.

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Key words: Berry phase, A-A phase, Yang phase, general time-dependent harmonic oscillator

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