

Analytical Solution for Single-Mode Time-Dependent Oscillator

HOU Guang,¹ XU Xiu-Wei,² and ZHANG Yong-De^{1,3}

¹ Department of Modern Physics, University of Science and Technology of China, Hefei 230026, China

² Department of Physics, Yantai Normal Institute, Yantai 264025, China

³ CCAST (World Laboratory), P.O. Box 8730, Beijing 100080, China

(Received: 2001-8-4; Revised: 2001-10-18)

Abstract: Based on the general theory of time-dependent quantum transformation, we use the "time evolution operator" method to solve the single-mode time-dependent oscillator.

PACS: 03.65.Fd, 05.30.Ch, 42.50.Dv

Key words: time-dependent transformation, time-dependent oscillator, time evolution operator

[\[Full text: PDF\]](#)

Close