

Time-dependent Schrodinger Equation in Two Dimentions

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Abstract

After studying the quantum physics and quantum mechanics in graduate and undergraduate school, I want to construct the graphics showing what it looks like. Because there are only a few problems can be solved exactly, perturbation theory and numerical method play the important role in quantum mechanics. I hope I can use several methods I learn last semester to deal with the problems that are difficult and hard to treat analytically.

Reference

[1] Nicholas J. Giordano and Hisao Nakanishi
2nd ed. 2006

Computational Physics

[2] Sakurai, J. J, Revised Edition, Modern
Quantum Mechanics