

Advanced Quantum Mechanics The Classical Quantum Connection

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Advanced Quantum Mechanics The Classical Quantum Connection

2021-08-22

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example of quantum electrodynamics and get as far as I can with it before the end of the course.

One-Particle Theories Take the simplest case, one particle with no forces. Then the NR wave-mechanics tells you to take the equation $E = \frac{1}{2m} p^2$ of classical mechanics, and write $E \rightarrow i\hbar \frac{\partial}{\partial t}$ $p_x \rightarrow -i\hbar \frac{\partial}{\partial x}$ (1) to get the wave-equation $i\hbar \frac{\partial}{\partial t} \psi = -\frac{\hbar^2}{2m} \nabla^2 \psi$

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Advanced Quantum Mechanics Lecture 6

Advanced Quantum Mechanics. Building on Professor Susskind's previous Continuing Studies courses on quantum mechanics, this course will explore the various types of quantum systems that occur in nature, from harmonic oscillators to atoms and molecules, photons, and quantum fields.

ADVANCED QUANTUM MECHANICS - arXiv

Aiming to show the connection between classical and quantum mechanics, he first reviews elementary concepts in both areas, including basic math techniques and special functions,

Newtonian mechanics, and Schrodinger's wave mechanics; then discusses semiclassical physics, classical periodic orbits, Lagrangian and Hamiltonian mechanics, the phenomenon of chaos, Feynman's Path Integrals, and applications of Gutzwiller's method and the trace formula to quantize chaos.

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