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The Schrödinger equation is a linear

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partial differential equation that describes the wave function or state function of a quantum-mechanical system.: 1-2 It is a key result in quantum mechanics, and its discovery was a significant landmark in the development of the subject. The equation is named after Erwin Schrödinger, who postulated the equation in 1925, and

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In quantum mechanics and scattering theory, the one-dimensional step potential is an idealized system used to

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model incident, reflected and transmitted matter waves. The problem consists of solving the time-independent Schrödinger equation for a particle with a step-like potential in one dimension.

## **Solution of Schrödinger equation for a step potential ...**

Particles in quantum mechanics are

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described by solutions to the Schrödinger equation, which are often called wavefunctions. The amplitude of these wavefunctions is related to the probability of finding a quantum particle at a particular location and time. For example, suppose we have an electron confined to a thin rod of length  $L$ .

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## **Solved: Particles In Quantum Mechanics Are Described By So ...**

Quantum mechanics - Quantum  
mechanics - Time-dependent

Schrödinger equation: At the same time  
that Schrödinger proposed his time-  
independent equation to describe the  
stationary states, he also proposed a  
time-dependent equation to describe

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how a system changes from one state to another. By replacing the energy  $E$  in Schrödinger's equation with a time-derivative operator, he generalized his

...

### **Quantum mechanics - Time-dependent Schrödinger equation ...**

The narrow-width limit of the Gaussian



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wave packet solution discussed is the free propagator kernel  $K$ . For other differential equations, this is usually called the Green's function, but in quantum mechanics it is traditional to reserve the name Green's function for the time Fourier transform of  $K$ .

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