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Schr ö dinger equation - Wikipedia

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" ... partial di erential equations are the basis of all physical theorems. In the theory of sound in gases, liquid and solids, in the investigations of elasticity, in optics, everywhere partial di erential equations formulate basic laws of nature which can be checked against experiments. " Bernhard Riemann

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If it does, it ' s a partial differential equation (PDE) ODEs involve a single independent variable with the differentials based on that single variable. An ordinary differential equation (or ODE) has a discrete (finite) set of variables; they often model one-dimensional dynamical systems, such as the swinging of a pendulum over time.

Differential Equations — Basics - Towards Data Science

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