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Uncertainty principle, also called Heisenberg uncertainty principle or indeterminacy principle, statement, articulated (1927) by the German physicist Werner Heisenberg, that the position and the velocity of an object cannot both be measured exactly, at the same time, even in theory.

Most commonly, the uncertainty on a quantity is quantified in terms of the standard deviation, σ , which is the positive square root of the variance. The value of a quantity and its error are then expressed as an interval $x \pm u$.

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The Heisenberg Uncertainty Principle is a relationship between certain types of physical variables like position and momentum, which roughly states that you can never simultaneously know both variables exactly. Informally, this means that both the position and momentum of a particle in quantum mechanics can never be exactly known.

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Roughly speaking, the uncertainty principle (for position and momentum) states that one cannot assign exact simultaneous values to the position and momentum of a physical system. Rather, these quantities can only be determined with some characteristic "uncertainties" that cannot become arbitrarily small simultaneously.

Uncertainty Principle Important steps on the way to understanding the uncertainty principle are wave-particle duality and the DeBroglie hypothesis. As you proceed downward in size to atomic dimensions, it is no longer valid to consider a particle like a hard sphere, because the smaller the dimension, the more wave-like it becomes.

In quantum mechanics, the uncertainty principle (also known as Heisenberg's uncertainty principle) is any of a variety of mathematical inequalities asserting a fundamental limit to the accuracy with which the values for certain pairs of physical quantities of a particle, such as position, x , and momentum, p , can be predicted from initial conditions.

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the principle of quantum mechanics, formulated by Heisenberg, that the accurate measurement of one of two related, observable quantities, as position and momentum or energy and time, produces uncertainties in the measurement of the other, such that the product of the uncertainties of both quantities is equal to or greater than $h/2\pi$, where h equals Planck's constant.

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