

# Schrödinger Equation

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$$i\hbar \frac{d}{dt} |\psi(t)\rangle = \hat{H} |\psi(t)\rangle$$

where  $|\psi(t)\rangle$  is the state vector of the quantum system,  $\hat{H}$  is the Hamiltonian operator, and  $\hbar$  is the reduced Planck constant.