

# Is quantum theory exact? The endeavor for the theory beyond standard quantum mechanics

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## Collapse models: introduction and overview

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**Abstract:** We will introduce models of spontaneous wave function collapse (collapse models) as an alternative to standard quantum theory. The Schroedinger equation is modified by adding nonlinear and stochastic terms, which induce the collapse of the wave function. We will review the general properties of such models, in the light of the most recent results. We will present an overview of where deviations from standard quantum theory - as predicted by these models - are more likely to be observed, highlighting where experimental research is more active.

**Presenter:** BASSI, Angelo (TS)