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Nonlinear Schrödinger Equation in Foundations: Summary of 4 Catches

Fundamental modifications of the standard Schrödinger equation by additional nonlinear terms have been considered for various purposes over the recent decades. It came as a surprise when, inverting Abner Shimony's observation of "peaceful coexistence" between standard quantum mechanics and relativity, N. Gisin proved in 1990 that any (deterministic) nonlinear Schrödinger equation would allow for superluminal communication. This is by now the most spectacular and best known foundational anomaly. I am going to discuss further anomalies, simple but foundational, less spectacular but not less dramatic.

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