

Numerical and analytical approaches for nonlinear dispersive PDEs

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Numerical solutions of a class of evolution PDEs

In this talk I will present two different approaches to construct the numerical solution of a class of evolution PDEs, such as the Schrödinger equation. We consider a combination of parametrization (time-dependent complex parameters) and time discretization processes. The main differences regarding the order in which this combination is carried out will be discussed throughout the talk.