

## Blow up and preventing blow up of solutions of nonlinear PDEs

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### Abstract

In this talk we will discuss the problem of blow up of solutions with arbitrary positive initial energy of initial boundary value problems for nonlinear wave equations and the impact of convective terms on global solvability and finite time blow up of solutions of reaction-diffusion equations, convective Cahn-Hilliard equation, generalized Kuramoto- Sivashinsky equation and KdV type equations.