

# İSTANBUL ANALYSIS SEMINARS

## FINITE TIME BLOW-UP SOLUTIONS TO PARTIAL DIFFERENTIAL EQUATIONS

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**Abstract:** The talk will be devoted to the blow-up of solutions to the initial-boundary value and Cauchy problems for nonlinear wave equations in finite time. We will discuss energy methods for establishing sufficient conditions, which guarantee the finite time blow-up of solutions to the nonlinear Klein-Gordon equations, the nonlinear Boussinesq type equations, Kirchhoff type equations, and related systems.

**Date:** March 4, 2016

**Time:** 15:40

**Place:** Sabancı University, Karaköy Communication Center  
Bankalar Caddesi 2, Karaköy 34420, İstanbul