Analysis/PDE SEMINAR SERIES

TOPIC: On Some Second Oder Equations with Constraint

SPEAKER: Giulio Schimperna, University of Pavia

TIME: 3:00pm-4:15pm, Thursday, March 24, 2016

VENUE: Room 264, Geography Building, Zhongbei Campus

ABSTRACT OF THE TALK

In this talk, I will present some results regarding the strongly damped wave equation with constraint. In particular, I will describe a suitable notion of weak solution based on duality methods. The results will be illustrated by means of a toy finite-dimensional example and applied to other PDEs related to delamination as well as Cahn-Hilliard models.

BIOGRAPHY

Giulio Schimperna is an Associate Professor in the Department of Mathematics at the University of Pavia (Italy). His research interests include mathematics of phase transition and thermomechanical models, infinite-dimensional dynamical systems, and more general partial differential equations.