

Project Workshop for Math 597/697Y

Wednesday, May 13, 2009

- 10:00-10:15: **Chris Hoogeboom**
Title: Understanding kink dynamics in the highly discrete sine-Gordon equation
- 10:20-10:35 **John Edison**
Title: Surface directed spinodal decomposition of binary fluid mixtures
- 10:40-10:55 **Yannan Shen**
Title: Short pulse equations and nonlinear optics
- 11:00-11:15 **Marina Bendersky**
Title: Propagation and propagation failure of waves in a calcium release model with various types of inhomogeneities
- 11:20-11:35 **Steve Sarasin**
Title: Probing the FPU- β model: an in-depth look into the effects of cubic nonlinearities in a coupled harmonic oscillator chain.
- 11:40-11:55 **Abhinav Guliani**
Title: Discrete nonlinear Schrödinger equations with a defect
- 12:00-12:15 **Kai Li**
Title: Nonlinear Schrödinger flows past an obstacle