

Iowa PDE Seminar

October 10, 2009

8:30 a.m. to 5:15 p.m.

298 Carver Hall

Department of
Mathematics

Iowa State University

The mission of this meeting is to bring together experts and young researchers to discuss recent research advances in the field of partial differential equations.

The seminar of this fall will expose participants to some of the current trends and recently developed tools in PDEs, numerical PDEs and related applications. Everyone interested in the theme of this seminar is welcome to attend.

Coffee in Carver 404

beginning at 8:30 a.m.

For more information, see:

<http://orion.math.iastate.edu/hliu/IAPDE09f/>

Organizers: Hailing Liu and Paul Sacks

8:45 Weimin Han
University of Iowa
Mathematical theory and numerical analysis for bioluminescence and tomography

10:30 James Ralston
UCLA
Keynote Speaker
The determination of moving boundaries by reflected waves

11:30 Gary Lieberman
Iowa State University
New results for solutions of some degenerate elliptic equations

2:00 Hailing Liu
Iowa State University
Global recovery of high frequency wave fields

3:45 Xiaoyi Zhang
University of Iowa
Regularity of almost periodic modulo scaling solutions for mass-critical NLS and applications

9:30 Dong Li
University of Iowa
On semilinear wave equations and Klien-Gordon equations with critical nonlinearities



Partial Differential Equations

2:45 Diego Moreira
University of Iowa
Least super-solution method for free boundary problems of flame propagation type

4:40 Jue Yan
Iowa State University
Discontinuous Galerkin Method for convection diffusion equations and Hamilton-Jacobi equations

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