

SCHEDULE FOR THE 59TH MIDWEST PARTIAL DIFFERENTIAL EQUATIONS
SEMINAR.

24–25 March 2007

University of Kentucky
Lexington, Kentucky

The seminar will take place in the Chemistry-Physics Building located at Rose Street and Funkhouser Drive on the campus of the University of Kentucky.

Saturday, 24 March 2007

8:30 am Registration, Coffee, Chemistry-Physics 179.

9:00-9:50 am, *Inverse Problems in Geometric Scattering*, Antônio Sá Barreto, Purdue University, Chemistry-Physics 155.

10:00-10:50 am, *The mass-critical nonlinear Schrodinger equation*, Monica Visan, IAS

11:00-11:30 am Break, Chemistry-Physics 179.

11:30-12:20 pm *Multi-dimensional Riemann problems for the compressible Euler system*, Yuxi Zheng, Pennsylvania State University, Chemistry-Physics 155.

12:30 - 2:30 Lunch

2:30-3:20 pm *On Stefan and Hele-Shaw problems with a degenerate phase*, Marianne Korten, Kansas State University, Chemistry-Physics 155.

3:30 pm Break, Chemistry-Physics 179.

4:00-4:50 pm, *A class of two-phase free boundary problems in the plane*, Arshak Petrosyan, Purdue University, Chemistry-Physics 155.

Sunday, 25 March 2007

8:30 am Registration, Coffee, Chemistry-Physics 179.

9:00-9:50 am, *The order of growth of the resonance counting function in Euclidean scattering*, Tanya Christiansen, University of Missouri, Columbia, Chemistry-Physics 155.

10:00 am Break, Chemistry-Physics 179.

10:30-11:20 am *Some Liouville theorems and gradient estimates*, Yan Yan Li, Rutgers University, Chemistry-Physics 155.

The seminar is supported by the National Science Foundation, the Department of Mathematics at the University of Kentucky and the Office of the Executive Vice-President for Research at the University of Kentucky.