

Partial Differential Equations and Mathematical Physics

Mini Conference on

“Topics in Euler’s equation for incompressible fluids”

Wednesday May 14 – Friday May 16, 2014

Talks in 127 Hayes-Healy Hall

PROGRAM

Wednesday, May 14, 2014

- 9:00am Registration and Coffee, 257 Hurley (Math Lounge)
- 10:00am *Lecture 1 (with 10 minute break)*
Vladimir Sverak, University of Minnesota
- 11:30am Lunch
- 1:45pm Marcelo Disconzi, Vanderbilt University
The free boundary Euler equations with large surface tension
Matthew Creek, University of Rochester
Large-Data Global Well-Posedness for the (1+2)-Dimensional Equivariant Faddeev Model
- 2:45pm Coffee Break, 257 Hurley (Math Lounge)
- 3:30pm John Holmes, University of Notre Dame
Continuity properties of the data-to-solution map for the generalized Camassa–Holm equation
Ryan Thompson, University of Notre Dame
Persistence Properties and Unique Continuation for a generalized Camassa-Holm Equation

Thursday, May 15, 2014

- 9:00am Registration and Coffee, 257 Hurley (Math Lounge)
- 10:00am *Lecture 2 (with 10 minute break)*
Vladimir Sverak, University of Minnesota
- 11:30am Lunch
- 1:45pm Alex Mesiats, Purdue University
Long-time behavior of stochastic reaction-diffusion equations
Dionyssios Mantzavinos, University of Notre Dame
On the initial-boundary value problem for the Boussinesq equation
- 2:45pm Coffee Break, 257 Hurley (Math Lounge)
- 3:30pm Kazuo Yamazaki, Oklahoma State University
Remarks on the regularity criteria of three-dimensional MHD system in terms of two velocity field components
Ming Chen, University of Pittsburgh
Continuous dependence on the density for stratified steady water waves
- 6:00pm Conference Dinner – The Oak Room, South Dining Hall

Friday, May 16, 2014

- 9:00am Coffee, 257 Hurley (Math Lounge)
- 10:00am *Lecture 3 (with 10 minute break)*
Vladimir Sverak, University of Minnesota
- 11:30am Closing Remarks
- 12:00pm End of Conference