

72nd Midwest PDE Seminar

Purdue University, November 16–17, 2013

Schedule

Saturday, November 16

8:30– 8:50	Registration and Refreshments	MATH Library Lounge
		MATH 175
8:50– 9:00	Opening Remarks	
9:00– 9:50	Alessio Figalli , University of Texas at Austin <i>Partial regularity for Monge-Ampère type equations</i>	
10:00–10:50	Konstantina Trivisa , University of Maryland <i>On kinetic models for the collective self-organization of agents</i>	
11:00–11:30	Coffee Break	MATH Library Lounge
	REC 121	REC 122
11:30–11:50	Ko-Shin Chen , Indiana University <i>Dynamics of Ginzburg-Landau and Gross-Pitaevskii vortices on manifolds</i>	Mimi Dai , University of Illinois, Chicago <i>Stability of solutions to the dissipative quasi-geostrophic equations</i>
11:55–12:15	Guanying Peng , Purdue University <i>Properties of minimizers of the Lawrence-Doniach energy with perpendicular magnetic field</i>	Changhui Tan , University of Maryland <i>Critical thresholds on compressible Eulerian dynamics with nonlocal alignment</i>
12:20– 2:00	Lunch	
		MATH 175
2:00– 2:50	Shu-Ming Sun , Virginia Tech <i>Solitary water waves and their stability</i>	
3:00– 3:50	Charles Smart , MIT <i>Quantitative stochastic homogenization of non-divergence form elliptic equations</i>	
4:00– 4:30	Coffee Break	MATH Library Lounge
	REC 121	REC 122
4:30– 4:50	Renato Ghini Bettiol , University of Notre Dame <i>Equivariant bifurcation in 2 geometric variational PDEs</i>	Zheng Hao , Kansas State University <i>The obstacle problem for elliptic operators in divergence form</i>
4:55– 5:15	Erik Lundberg , Purdue University <i>Growth of solutions to the minimal surface equation over unbounded domains</i>	Nguyen Lam , Wayne State University <i>Moser-Trudinger and Adams inequalities and applications</i>
5:20– 5:40	Murat Akman , Institut Mittag-Leffler <i>Hausdorff dimension and p-harmonic measure</i>	Hussein Awala , Temple University <i>On the mixed boundary value problem for the Laplacian in polygonal domains in two dimensions</i>
7:00	CONFERENCE DINNER	Khana Khazana, West Lafayette, IN

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Sunday, November 17

8:30– 9:00	Refreshments	MATH Library Lounge
		MATH 175
9:00– 9:50	Robert Jerrard , University of Toronto <i>Existence and uniqueness of minimizers of general least gradient problems</i>	
10:00–10:50	Shankar Venkataramani , University of Arizona <i>Singular interfaces in two dimensional free boundary problems</i>	
11:00–11:30	Coffee Break	MATH Library Lounge
11:30–12:20	Vladimir Sverak , University of Minnesota <i>Invariant measures and long-time behavior for some Hamiltonian PDEs</i>	
12:30	Conference Ends	