

The Batsheva de Rothschild Seminar on Hardy-type Inequalities and Elliptic PDEs

Program

Sunday ,7.1.2018	
14:00 - 16:00	Arrival and Check-in (and light lunch) at the Hamburg Club
	Afternoon Session at the Interdisciplinary center
16:00 - 16:50	Catherine Bandle (University of Basel) Semilinear elliptic problems with a Hardy potential
17:00 - 17:50	Gabriele Grillo (Politecnico di Milano) Nonlinear evolution on manifolds: long-time asymptotics and relations with a sublinear elliptic problem
17:50 - 18:10	Coffee break
18:10 - 19:00	Haim Brezis (Rutgers University & Technion) On the subtleties of a 1D regularized interpolation problem
19:00 – 20:00	Dinner at the dining room
20:00-22:30	Open discussions at the Hamburg Club
Monday, 8.1.2018	
07:30 - 08:30	Breakfast at the dining room
	Morning Session at the Interdisciplinary center
09:00 - 09:50	Adi Adimurthi (TIFR, Bangalore) A Hardy type inequality on fractional order Sobolev spaces on the Heisenberg group
10:00 - 10:50	Marie-Françoise Bidaut-Véron (Université de Tours) A priori estimates and ground states of solutions of some Emden-Fowler equations with gradient term
10:50 - 11:30	Coffee break
11:30 - 12:20	Petru Mironescu (Université Lyon I) The role of Hardy's inequality in the theory of function spaces
12:30 - 14:00	Lunch at the dining room
14:00 - 15:00	Free Time
	Afternoon Session at the Interdisciplinary center
15:00 - 15:50	Gerassimos Barbatis (University of Athens) Two perturbation problems concerning the Hardy constant $H_p(\Omega)$
16:00 - 16:50	Pier Domenico Lamberti (Università di Padova) L^p Hardy inequality on $C^{1,\nu}$ domains
16:50 - 17:30	Coffee break
17:30 - 18:20	Emanuel Milman (Technion) The Gaussian Double Bubble Conjecture
18:30 - 19:20	Laurent Véron (Université de Tours) Initial trace of positive solutions to fractional diffusion equation with absorption
19:30 – 20:30	Dinner at the dining room
20:30 - 22:00	Poster session at the Hamburg Club
Tuesday, 9.1.2018	
07:30 - 08:30	Breakfast at the dining room
	Morning Session at the Interdisciplinary center
08:30 - 09:20	Itai Shafir (Technion) Small energy Ginzburg-Landau minimizers in \mathbb{R}^3
09:30 -10:20	Matania Ben-Artzi (Hebrew University) Global sharp estimates for a class of pseudodifferential operators
10:20 -10:50	Coffee break
10:50 -11:40	Gabriella Tarantello (Seconda Università di Roma) A class of Elliptic systems in the study of non abelian Chern-Simons vortices
12:00 -17:00	Afternoon trip to Zin Desert
19:00 – 22:00	Festive dinner at Arnika

Wednesday, 10.1.2018	
07:30 - 08:30	Breakfast at the dining room
	Morning Session at the Interdisciplinary center
09:00 - 09:50	Paul Rabinowitz (University of Wisconsin) Heteroclinic solutions of mountain pass type
10:00 -10:50	Vitaly Moroz (Swansea University) Thomas-Fermi type models of external charge screening in graphene
10:50 -11:30	Coffee break
11:30 -12:20	Augusto Ponce (Université Catholique de Louvain) The uncharted territory of $W^{q,1}$ Sobolev spaces
12:30 -14:00	Lunch at the dining room
14:00 -15:00	Free time
	Afternoon Session at the Interdisciplinary center
15:00 - 15:50	Andrey Shishkov (NAS of Ukraine and RUDN University, Moscow) Very singular and large solutions of quasilinear parabolic equations with degenerate absorption
16:00 - 16:50	Yanyan Li (Rutgers University) Derivative estimates for solutions of divergence form equations with discontinuous coefficients
16:50 - 17:30	Coffee Break
17:30 - 18:20	Cyril Tintarev (Uppsala University) Defect of compactness in Sobolev embeddings on Riemannian manifolds
18:30 - 19:20	Juan Luis Vazquez (Autonomous University of Madrid) Nonlinear elliptic and parabolic equations driven by fractional operators
19:30 – 20:30	Dinner at the dining room
20:30 – 23:00	Open discussions at the Hamburg Club
Thursday, 11.1.2018	
07:30 - 08:30	Breakfast at the dining room
	Morning Session at the Interdisciplinary center
08:30 - 09:20	Achilles Tertikas (University of Crete) Best constants in Hardy and Hardy Sobolev inequalities: The role of Geometry
09:30 -10:20	Igor Verbitsky (University of Missouri) Sublinear equations and related weighted norm inequalities
10:20 -11:00	Coffee break
11:00 -11:50	Baptiste Devyver (Technion) Heat kernel estimates of Schrödinger-type operators
12:00 -12:50	David Krejčířík (Nuclear Physics Institute & Czech Technical Univ.) Absence of eigenvalues of Schrödinger operators with complex potentials
13:00 – 14:00	Lunch at the dining room