		Monday, May 16		
08:00-09:00	Coffee, Registration (Wilson Hall)			
09:00-09:10	Opening (Wilson Hall 103)			
09:20-10:00	Peter Constantin: Nonlocal evolution equations, electroconvection			
10:00-10:30	Coffee break			
	Wilson Hall 103	Wilson Hall 115		Wilson Hall 113
10:30-12:30	Analysis and control of PDE evolutions with an interface-I (Lasiecka)	Analysis of fluid flow-I (Shkoller & Vicol)		Fluids and geometry (Disconzi)
	Lorena Bociu: Control and sensitivity analysis in fluid-elasticity interactions	Tarek M Elgindi: The inverse Laplacian on bounded functions		Mihaela Ifrim: Two dimensional gravity water waves with constant vorticity: I. Cubic lifespan
	Jameson Graber: Attractors for strongly damped wave equations with nonlinear hyperbolic dynamic boundary conditions	Rafael Granero-Belinchón: The inhomogeneous Muskat problem		Leandro Lichtenfelz: Normal forms for the L ² Riemannian exponential map on diffeomorphism groups.
	Scott Hansen: Boundary control of Schrödinger and heat equations with point-mass interfaces	Mihaela Ignatova: Almost global existence of the Prandtl equations		Stephen Preston: Euler-Arnold equations and Teichmüller theory
	Louis Tebou: Stabilization of a transmission system involving thermoelasticity	Fei Wang: Sobolev stability threshold for 2D shear flows near Couette		Andrei Tarfulea: Front propagation and symmetrization for the fractional Fisher-KPP equation
12:30-02:00	Lunch break			
02:00-02:40	Vlad Vicol: On the vanishing viscosity limit for the Navier-Stokes equations			
02:50-03:30	Steve Shkoller: Fluid-fluid and fluid-solid interfaces and a model for Rayleigh-Taylor instability			
03:30-04:00	Coffee break			
04:00-6:00	Wilson Hall 103		Wilson Hall 115	
	Analysis and control of PDE evolutions with an interface-II (Lasiecka)		Analysis of fluid flow-II (Shkoller & Vicol)	
	Mihaela Ignatova: On the local existence of the free surface Euler equation with surface tension		Klaus Widmayer: Convergence to stratified flow for an inviscid 3D Boussinesq system	
	Catherine Lebiedzik: Global solutions in quasilinear thermoelasticity		Michele Coti Zelati: Stochastic perturbations of passive scalars and small noise inviscid limits	
	Malgorzata Peszynska: Modeling biofilm evolution with a variational inequality			
	Ralph Showalter: Single-phase flow in thermo-poro-elastic media			

		Tuesday, May 17	
08:00-08:30	Coffee		
08:30-09:10	Andrea L. Bertozzi: Geometric graph-based methods for high dimensional data		
09:20-10:00	Joachim Escher: Geodesic flows on Fréchet-Lie groups		
10:00-10:30	Coffee break		
	Wilson Hall 103	Wilson Hall 115	Wilson Hall 113
	Analysis and control of PDE evolutions with an interface-III (Lasiecka)	Qualitative properties of solutions to free boundary problems (Escher)	Mathematical and general relativity (Disconzi)
10:30-12:30	Mary Ann Horn: Mathematical challenges arising from the questions of controllability for mixed structures	Gabriele Bruell: Weak solutions to a two-phase thin film equation with insoluble surfactant	Xinliang An: On gravitational collapse in general relativity
	<u>Daniel Toundykov</u> : The discrete inf-sup inequality for finite-element solutions of fluid-structure interaction problems	Anna Geyer: On periodic traveling waves of the Camassa-Holm equation	Moritz Reintjes: Is spacetime locally inertial for general relativistic shock wave solutions?
	Justin Webster: An effective decomposition of flow-plate dynamics for strong stability	Christina Lienstromberg: On qualitative properties of solutions to microelectromechanical systems with general permittivity	Mihai Tohaneanu: Pointwise decay for the Maxwell system on black holes
		Bogdan Matioc: A domain of parabolicity for the Muskat problem	Willie Wong: A choice-free black box for obtaining the maximal globally hyperbolic Cauchy development
12:30-02:00	Lunch break		
02:00-02:40	Pierre Germain: High frequency dynamics for NLS on a torus		
02:50-03:30	Jared Speck: Shock formation in nearly plane symmetric solutions to quasilinear wave equations		
03:30-04:00	Coffee break		
04:00-05:00	Shanks Lecture Lawrence C Evans: Hidden convexity for nonlinear PDE		
05:00-06:30	Reception (Wilson Hall)		

		Wednesday, May 18	
08:00-08:30	Coffee		
08:30-09:10	Nader Masmoudi: Stability of the 3D Couette flow		
09:20-10:00	Anna Mazzucato: Heat kernels, maximal regularity, and semi-linear parabolic equations on non-compact manifolds		
10:00-10:30	Coffee break		
	Wilson Hall 103	Wilson Hall 115	Wilson Hall 113
	Celebrating the work of Jan Prüss-I	Euler equation and related models (Masmoudi)	Singular problems in fluid mechanics (Mazzucato)
	<u>Jürgen Saal</u> : Analysis of a living fluid continuum model	Tristan Buckmaster: Onsager's conjecture	Gung-Min Gie: Boundary layer analysis of the linearized Navier-Stokes equations
10:30-12:30	Matthias Köhne: Optimal estimates for multiplication and analytic Nemytskij operators in anisotropic function spaces	Tarek M Elgindi: Illposedness results for the incompressible Euler equations in critical spaces	Luan Hoang: Asymtotic expansion for solutions of Navier-Stokes equations with a non-pontential body force
	Patrick Guidotti: Domain variations and the linearization of moving boundary problems	Zineb Hassainia: On the 2D isentropic Euler system with unbounded initial vorticity	Changbing Hu: The 3D steady and unsteady primitive equations of the ocean
	Christoph Walker: A free boundary problem modeling MEMS	Benjamin Harrop-Griffiths: The lifespan of small solutions to the KP-I	Vincent R Martinez: On Gevrey regularity of the supercritical SQG equation
12:30-02:00	Lunch break		
02:00-02:40	Wilhelm Schlag: Long term dynamics of nonlinear dispersive evolution equations		
02:50-03:30	Spyros Alexakis: Singularity formation in black hole interiors		
03:30-04:00	Coffee break		
04:00-06:00	Wilson Hall 103	Wilson Hall 115	Wilson Hall 113
	Celebrating the work of Jan Prüss-II	Qualitative study of the Navier-Stokes, Euler and related geophysical systems-I (Titi)	Contributed talks
	Michael Renardy: Interior local null controllability of one-dimensional compressible flow near a constant steady state	Animikh Biswas: Determining modes for the statistical solutions of the Navier-Stokes equations	Yuan-Jen Chiang Matthew Fury Julien Guillod
	Roberto Triggiani: Heat-structure interaction: optimal rational decay rate by microlocal analysis	Tarek M Elgindi: Sharp Lp estimates for singular transport equations	Chenyun Luo Marcella Noorman
	Amru Hussein: Global strong L ^p well-posedness of the 3D primitive equations	Adam Larios: The weak sigma-attractor for the semi-diffusive 2D Boussinesq equations	Kazuo Yamazaki Bingsheng Zhang
	Martin Saal: Exponential stability of a thermoviscoelastic mixture with second sound	Michele Coti Zelati: Enhanced dissipation, hypoellipticity and mixing in shear flows	Qingxia Li

	Thursday, May 1	9	
08:00-08:30	Coffee		
08:30-09:10	Matthias Hieber: Dynamics of the Ericksen-Leslie model for nematic liquid crystal flow		
09:20-10:00	Dieter Bothe: On mass-transfer across clean / contaminated fluid interfaces		
10:00-10:30	Coffee break		
	Wilson Hall 103	Wilson Hall 115	
	Celebrating the work of Jan Prüss-III	Nonlinear waves-l (Tataru & Bejenaru)	
	Rico Zacher: Stability, instability, and blowup for non-local in time reaction-diffusion equations	Jeremy L Marzuola: Ground states and bifurcation for NLS on a closed graph	
	Mathias Wilke: On the Westervelt equation with absorbing boundary conditions	Jason Metcalfe: Local well-posedness for quasilinear Schrodinger equations	
10:30-12:30	Marie-Luise Hein: The Hartman-Grobman theorem for semilinear hyperbolic evolution equations	Mihai Tohaneanu: Global existence for quasilinear wave equations close to Schwarzschild	
	Roland Schnaubelt: Error analysis of the ADI splitting method for the Maxwell equations	Klaus Widmayer: Stability of solutions to a beta-plane equation	
12:30-02:00	Lunch break		
02:00-02:40	Irena Lasiecka: How to stabilize a 3-D Navier Stokes equation with a finite dimensional boundary feedback controller?		
02:50-03:30	Edriss S. Titi: Is dispersion a stabilizing or destabilizing mechanism?		
03:30-04:00	Coffee break		
	Wilson Hall 103	Wilson Hall 115	
	Celebrating the work of Jan Prüss-IV	Qualitative study of the Navier-Stokes, Euler and related	
04.00 6.00		geophysical systems-II (Titi)	
04:00-6:00	Senjo Shimizu: Two-phase flows with phase transitions	Aseel Farhat: The space B ⁻¹ ∞, ∞, volumetric sparseness, and 3D NSE	
	Luca Lorenzi: Evolution systems of measures and asymptotic behaviour in linear non-autonomous Kolmogorov equations Stig-Olof Londen: Regularity of stochastic integral equations driven by Poisson random measures	Jinkai Li: Recent advances on the primitive equations of oceanic and atmospheric dynamics	
		Cecilia F. Mondaini: A spatio-temporal discrete data assimilation algorithm for the 2D Navier-Stokes equations and statistics	
	Wolfgang M. Ruess: Linearized stability for nonlinear Volterra equations	Kazuo Yamazaki: Recent developments on the magnetohydrodynamics and related systems	
06:30-9:00	Conference Banquet (at Cabana)		

Friday, May 20				
08:00-08:30	Coffee			
08:30-09:10	Daniel Tataru: Conservation laws in completely integrable pde's			
09:20-10:00	Ioan Bejenaru: Multilinear restriction theory			
10:00-10:30	Coffee break			
	Wilson Hall 103	Wilson Hall 115		
	Celebrating the work of Jan Prüss-V	Nonlinear waves-II (Tataru & Bejenaru)		
	<u>Jeremy LeCrone</u> : Stability of cylinders in surface diffusion flow under general perturbations	Benjamin Dodson: Type one and type two blowup for some dispersive equations		
10:30-12:30	Yuanzhen Shao: Wellposedness of a nonlocal nonlinear diffusion equation of image processing	<u>Dana Mendelson</u> : Random data Cauchy theory for some nonlinear wave equations		
	Giusy Mazzone: On the motions of a liquid-filled rigid body around a fixed point	Benjamin Harrop-Griffiths: An introduction to the finite depth gravity water waves in holomorphic coordinates		
		Mihaela Ifrim: Finite depth gravity water waves in holomorphic coordinates		

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