NEAM 1

Friday October 14

After 8:00 Registration in Edwards 106A

Edwards 105

8:40 - 9:00 Dean Maliekal’s Address
9:00 - 9:50 Brett D. Wick, Washington University in St. Louis
   Commutators and BMO
10:00 - 10:30 Dan Geba, University of Rochester,
   Regularity results for generalizations of the wave maps equation
10:30 - 11:00 Coffee Break
11:00 - 11:50 Jingbo Xia, University at Buffalo, SUNY
   Hankel Operators On Weighted Bergman Spaces and Norm Ideals
12:00 - 12:50 Alex Iosevich, University of Rochester
   Local smoothing for the wave equation and the Falconer conjecture
12:50 - 2:30 Lunch Break

Contributed Section 1
Edwards 103

2:30 - 2:50 Afrah Abdou, King Abdulaziz University
   Common fixed point results for multi-valued mappings with some examples
2:55 - 3:15 Qiyu Sun, University of Central Florida
   Wiener’s lemma and stability for infinite matrices
3:20 - 3:40 Wanqing Cheng, University of Arkansas (Fayetteville)
   Spherical II-type Operators in Clifford Analysis and Applications
3:45 - 4:05 Marius Beceanu, University at Albany, SUNY
   New tools for the study of supercritical wave equations
4:05 - 4:30 Coffee Break
4:30 - 4:50 Chao Ding, University of Arkansas, Fayetteville
   Construction of Arbitrary Order Conformally Invariant Operators in Higher Spin Spaces
4:55 - 5:15 Cheng Cheng, University of Central Florida
   Spatially distributed sampling and reconstruction of signals on a graph
5:20 - 5:40 Jianhua Gong, United Arab Emirates University
   Quasiconformal Groups
Contributed Section 2

Edwards 104

2:30 - 2:50 Joseph Cima, University of North Carolina at Chapel Hill
A Volterra operator on Hardy Spaces

2:55 - 3:15 Nathan Feldman, Washington & Lee University
Convex-Polynomial Interpolation, Approximation & Invariant Convex Sets

3:20 - 3:40 Zhijian Wu, University of Nevada, Las Vegas
Difference of weighted composition operators on Bergman spaces

3:45 - 4:05 Ruhan Zhao, College at Brockport, SUNY
Closures of Hardy and Hardy-Sobolev spaces in the Bloch type space on the unit ball

4:05 - 4:30 Coffee Break

4:30 - 4:50 Robert Rahm Jr, Washington University in St. Louis
Fractional Integral Operators Associated to Schrodinger Operators

4:55 - 5:15 Joshua Isralowitz, University at Albany, SUNY
A (very, very brief) introduction to matrically degenerate elliptic systems of PDEs

5:20 - 5:40 Miron Bekker, University of Pittsburgh at Johnstown
Parametrization of Scale-Invariant Self-Adjoint Extensions of symmetric Scale-Invariant Operators

Contributed Section 3

Edwards 106

2:30 - 2:50 Pablo Jimenez-Rodriguez Kent State University
Polynomial inequalities on circular sectors

2:55 - 3:15 Dorin Ghisa, York University
The Geometry of the Mappings by General Dirichlet Series

3:20 - 3:40 Sergii Myroshnychenko, Kent State University
On polytopes with congruent sections and projections

3:45 - 4:05 Grigore Sălăgean, The College at Brockport, SUNY
On the order of convolution consistence of certain classes of harmonic functions defined using a convolution operator

4:05 - 4:30 Coffee Break

4:30 - 4:50 Isaac DeFrain, Kent State University
Chebyshev polynomials on a continuum in the complex plane

4:55 - 5:15 Shan Tai Sandy Chan, Syracuse University
On holomorphic isometries of complex unit balls into irreducible bounded symmetric domains of rank ≥ 2
NEAM 1

Saturday October 15

After 8:00 Registration in Edwards 106A

Edwards 105

9:00 - 9:50 Aimo Hinkkanen, University of Illinois at Urbana-Champaign  
*Complex dilatation and the Cartan-Kähler theory*

10:00 - 10:30 Dan Coman, Syracuse University  
*On the first order asymptotics of partial Bergman kernels*

10:30 - 11:00 Coffee Break

11:00 - 11:50 Camil Muscalu, Cornell University  
*The helicoidal method*

11:50 - 1:00 Lunch Break & Pannel Discussion How to get a tenure - track job

1:00 - 1:30 Anca Rădulescu, SUNY New Paltz  
*Extensions of the Mandelbrot for templates and networks of quadratic maps*

1:35 - 2:05 Kazuo Yamazaki, University of Rochester  
*Global stability and uniform persistence of the reaction-convection-diffusion cholera epidemic model*

Special Session on Fluid Dynamics  
**Edwards 103**

2:15 - 2:35 Manil Thankamani Mohan, Air Force Institute of Technology  
*Some Recent Progress in Quasilinear Hyperbolic Systems: New Local Solvability Methods and Stochastic Analysis*

2:40 - 3:00 Vincent Martinez, Tulane University  
*Analytical studies for a Data Assimilation Algorithm: Surface data, Higher-order synchronization, and Time-averaged measurements*

3:05 - 3:25 Zachary Bradshaw, University of Virginia  
*Scaling invariant solutions to 3D NSE*

3:30 - 3:50 Andrei Țarfulea, University of Chicago  
*Front propagation and symmetrization for the fractional Fisher-KPP equation*

3:50 - 4:20 Coffee Break

4:20 - 4:40 Jiahong Wu, Oklahoma State University  
*The 2D Magnetohydrodynamic (MHD) Equation With Partial Dissipation*

4:45 - 5:05 Bradley McCaskill, University of Wyoming  
*Continuous Data Assimilation for Miscible Displacement in Porous Media*

5:10 - 5:30 Chenyun Luo, Johns Hopkins University
On the motion of the free surface of a compressible liquid
5:35 - 5:55 Lizheng Tao, University of California, Riverside
INVISCID LIMIT PROBLEM WITH FRACTIONAL LAPLACIAN

Special Session on Dynamical Systems
Edwards 104

2:15 - 2:35 Natalie Frank, Vassar College
Towards spectral analysis of self-similar tilings via a renormalization approach
2:40 - 3:00 Edmond Rusjan, SUNY IT
Fractal Trees and Poisson - A Model of the Blood Flow in the Retina of the Eye
3:05 - 3:25 Wael Al-Sawai, University of South Florida
Perturbation of Gaudin Integrable Dynamical Systems
3:30 - 3:50 Armenak Petrosyan, Vanderbilt University
Iterative actions of operators on a system of vectors
3:50 - 4:20 Coffee Break
4:20 - 4:40 Roza Aceska, Ball State University
Tight and scalable frames in dynamical sampling
4:45 - 5:05 Flavia Colonna, George Mason University
Hypercyclicity of composition operators on Banach spaces of analytic functions
5:10 - 5:30 Mai Tran, University at Albany, SUNY
An Exploration on the Resolvent Set with Geometry
5:35 - 5:55 Gabriel Prăjitură, College at Brockport, SUNY
Operators with simple orbits

Contributed Section 4
Edwards 106

2:15 - 2:35 Oleksandr Vlasiuk
Point Configurations via Hypersingular Riesz Energy With an External Field
2:40 - 3:00 Pritha Chakraborty, Texas A&M University Corpus-Christi
A Different Approach to Korenblum’s Conjecture in Bergman Spaces
3:05 - 3:25 Cezar Lupu, University of Pittsburgh
The Riemann zeta function for integer values and evaluation of some multiple
zeta values
3:30 - 3:50 Mihai Stoiciu, Williams College
Transition in the Eigenvalue Distribution of Random and Deterministic Unitary
Operators
3:50 - 4:20 Coffee Break
4:20 - 4:40 Mihai Băileteanu, Central Connecticut State University
Geometric methods to study non-linear parabolic equation
4:45 - 5:05 Jan Lang, The Ohio State University
Spectral theory on Banach spaces
5:10 - 5:30 Yunyun Yang, West Virginia University Institute of Technology
Distributions in Spaces with Thick Points

7:00 Dinner
NEAM 1

Sunday October 16

Edwards 105

9:00 - 9:50 Dechao Zheng, Vanderbilt University
Multiplication operators on the Bergman spaces of polygons
10:00 - 10:30 Javad Mashreghi, Laval University
Numerical range versus spectrum
10:30 - 11:00 Coffee refueling
11:00 - 11:50 Kelly Bickel, Bucknell University
Compressions of the shift on two-variable model spaces
12:00 - 12:50 Vladimir Peller, Michigan State University
M.G. Krein's problem and the Lifshits-Krein trace formula