

The 24th Southeastern Analysis Meeting
& the 23rd Shanks Lectures

Vanderbilt University
Nashville, Tennessee, USA

March 5–9, 2008

Schedule of Talks

Wednesday, March 5, 2008		
Morning		
8:30		Registration Opens in Stevenson Center Lobby*
Room: SC 4309		
9:45-10:00		Welcome
10:00-11:00 <i>Shanks Lecture</i>	Charles Fefferman <i>Princeton University</i>	Whitney's Interpolation Problem and Interpolation I
11:00-11:30		Coffee Break
11:30-12:30 <i>Shanks Lecture</i>	Charles Fefferman <i>Princeton University</i>	Whitney's Interpolation Problem and Interpolation II
12:30-2:00		Lunch Break
Afternoon		
Room: SC 4309		
2:00-3:00	Michael T. Lacey <i>Georgia Institute of Technology</i>	The Small Ball Inequality in all Dimensions
3:00-3:30		Coffee Break
3:30-4:00	Leonid Slavin <i>University of Missouri</i>	The s -function and the exponential integral
4:00-4:30	Tao Mei <i>University of Illinois at Urbana-Champaign</i>	H^1 -BMO duality associated with semigroup of operators on general measure space
4:30-5:00	Matthew Calef <i>Vanderbilt University</i>	A Limiting Case for Riesz s -Energies
5:00-5:30	Vladimir Eiderman <i>Michigan State University</i>	Cartan type estimates for Riesz transforms
5:30-6:00	Ravshan Ashurov <i>Uzbek Academy of Sciences</i>	On summability of eigenfunction
6:30		Reception (Atrium of Buttrick Hall)

*Registration will be available from 8:30 a.m. and before and after coffee breaks March 5-6. If you are unable to register during these times, please come to the Department of Mathematics offices for assistance.

Thursday, March 6, 2008

Morning

Room: SC 4309

9:00-10:00	Stefan Richter <i>University of Tennessee</i>	Some remarks on the dilation theory for commuting d-contractions
10:00-10:30		Coffee Break
10:30-11:30	Sergei Treil <i>Brown University</i>	Singular integrals and perturbation theory
11:30-12:00	Raúl Curto <i>University of Iowa</i>	Spectral pictures of hyponormal 2-variable weighted shifts
12:00-12:30	Laurent Baratchart <i>INRIA, France</i>	Extremal problems for harmonic gradients
12:30-2:00		Lunch Break

Afternoon

Room: SC 4309

2:00-3:00	John McCarthy <i>Washington University</i>	Matrices and Varieties
3:00-3:30	Peter Duren <i>University of Michigan</i>	Valence of Analytic and Harmonic Functions
3:30-4:00		Coffee Break

	Session A Room: SC 4327	Session B Room: SC 5211	Session C Room: SC 4309
4:00-4:30	Hyun-Kyoung Kwon <i>Brown University</i> Similarity of Operators and Geometry of Eigenvector Bundles	Emanuel Carneiro <i>University of Texas at Austin</i> Some extremal functions in Fourier analysis	Greg Knese <i>University of California at Irvine</i> Polynomials defining distinguished varieties
4:30-5:00	Lawrence Fialkow <i>SUNY New Paltz</i> Solution of the $y = x^3$ truncated moment problem	Sung Eun Kim <i>Judson University</i> Calderon's Problem for Lipschitz Piecewise Smooth Conductivities	Brent Carswell <i>Allegheny College</i> Wold-type decompositions for invariant subspaces of the Bergman space
5:00-5:30	Nathan Feldman <i>Washington & Lee University</i> Somewhere Dense Orbits of Tuples of Operators	Gary Sampson <i>Auburn University</i> Estimates of Oscillatory Integrals	Maria Martin <i>University of Michigan</i> Limits of the hyperbolic derivative of conformal maps onto smooth domains with corners
5:30-6:00	Alan Paterson The families index theorem without embedding	Erkinjon Karimov <i>Uzbek Academy of Sciences</i> Non-local problems with special gluing conditions for mixed type partial equation differential	Rachel Weir <i>Allegheny College</i> An integral formula in weighted Bergman spaces

Morning			
7:45-8:45	Room: SC 1310	SEAM's Ladies Breakfast	
Room: SC 4309			
9:00-10:00	Wing Suet Li <i>Georgia Tech.</i>	The Horn conjecture for sums of compact self-adjoint operators	
10:00-10:30		Coffee Break	
10:30-11:30	Guihua Gong <i>University of Puerto Rico</i>	Positive scalar curvature and non commutative geometry	
11:30-12:30	Xiaoman Chen <i>Fudan University</i>	On Operator Norm Localization Property	
12:30-2:00		Lunch Break	
Afternoon			
Room: SC 4309			
2:00-3:00	Vladimir Peller <i>Michigan State University</i>	Approximation by analytic matrix functions in L^p	
3:00-3:30	Christopher Heil <i>Georgia Institute of Technology</i>	Gabor Schauder Bases and the Balian–Low Theorem	
3:30-4:00		Coffee Break	
	Session A Room: SC 4327	Session B Room: SC 5211	Session C Room: SC 4309
4:00-4:30	Zubin Gautam <i>University of California at Los Angeles</i> A critical-exponent Balian-Low theorem	Alberto Condori <i>Michigan State University</i> Monotone Thematic Factorizations of Matrix functions	Yun-Su Kim <i>University of Toledo</i> A Generalization of Beurling's Theorem
4:30-5:00	Zhongyan Li <i>North China Electric Power Univ., China</i> Multipliers, Phases and Connectivity of Wavelets in $L^2(\mathbb{R}^2)$	Vita Borovyk <i>University of Missouri, Columbia</i> On the ergodic limit of the spectral shift function	James Qiu <i>Southwestern Univ. of Finance and Economic, China</i> The spaces of rational functions and a generalized Beurling's theorem
5:00-5:30	Xingde Dai <i>University of North Carolina at Charlotte</i> Equivalent conditions on direct path of wavelet sets	Waclaw Szymanski <i>West Chester Univ.</i> Extremely non-multiplicative, non-symmetric, non-commutative operator spaces	Bo Li <i>SUNY at Buffalo</i> On Burbea's m th order Bergman "metric" and Berezin's operator calculus
5:30-6:00	Ilya Krishtal <i>Northern Illinois University</i> Non-commutative extensions of Wiener's Lemma in frame and time-frequency analysis		John Ryan <i>University of Arkansas</i> Sharp L^2 inequalities for Dirac type operators
7:00	Conference Dinner	Golden Coast	

Saturday, March 8, 2008

Morning

Room: SC 4309

9:00-10:00	Alexander Volberg <i>Michigan State University</i>	The Cauchy Integral, Its Friends and Family: Analysis, Geometry and Combinatorics
10:00-10:30		Coffee Break
10:30-11:30	Jingbo Xia <i>SUNY at Buffalo</i>	Boundedness and Compactness of Hankel Operators on the Sphere
11:30-12:00	Mrinal Raghupathi <i>University of Houston</i>	Nevanlinna-Pick Interpolation for $C + BH^\infty$
12:00-12:30	Stephan Garcia <i>Pomona College</i>	New Classes of Complex Symmetric Operators
12:30-2:00		Lunch Break

Afternoon

Room: SC 4309

2:00-3:00	Richard Rochberg <i>Washington University</i>	The Dixmier trace of Bergman space Hankel operators
3:00-3:30	Elizabeth Strouse <i>University of Bordeaux</i>	Toeplitz Operators and matrices, eigenvalue distribution, spectrum and attracting features
3:30-4:00		Coffee Break
	Session A Room: SC 4309	Session B Room: SC 4327
4:00-4:30	Ruhan Zhao <i>SUNY at Brockport</i> Characterizations of Bloch type spaces by divided differences	Michael Dritschel <i>Newcastle University</i> Transfer function realization for C^* -correspondence valued Schur-Agler classes
4:30-5:00	Jie Miao <i>Arkansas State University</i> Bounded Toeplitz Products on the Weighted Bergman Spaces of the Unit Ball	Quanlei Fang <i>Virginia Tech</i> The left tangential operator-argument interpolation problem on the noncommutative ball
5:00-5:30	Trieu Le <i>University of Toronto</i> Diagonal Toeplitz operators on weighted Bergman spaces	Richard Spjut <i>University of California at Santa Barbara</i> Parameter Collapse due to the Zeros in the Inverse Condition
5:30-6:00	Gabriel Prajitura <i>SUNY at Brockport</i> Aluthge transforms of cyclic operators	Sanne ter Horst <i>Virginia Tech</i> The relaxed commutant lifting problem as a general H^2 interpolation problem

Sunday, March 9, 2008

Morning

Room: SC 4309

9:00-9:30	Joseph Ball <i>Virginia Tech</i>	De Branges-Rovnyak functional-model reproducing kernel spaces: multivariable generalizations
9:30-10:00	William Ross <i>University of Richmond</i>	Truncated Toeplitz operators
10:00-10:30	Kei Ji Izuchi <i>Niigata University, Japan</i>	Cross Commutators on Backward Shift Invariant Subspaces over the Bidisk
10:30-11:00	Karel Stroethoff <i>University of Montana</i>	Weighted Composition Operators into Bloch Spaces
11:00	Coffee Break	End of the conference