

Monday, May 22

8:15–9:00 Coffee and Registration¹

9:00–9:30 Jeffrey I. Herbst, Provost and Executive Vice President of Miami University, Welcome and Conference Opening

9:30–10:20 William B. Johnson, Non linear factorization of linear operators.

10:30–11:20 Przemysław Wojtaszczyk, Results and problems on wavelet greedy approximation of functions of bounded variation.

11:20–1:30 Lunch Break

1:30–2:20 Valentin Ferenczi, Uniqueness of complex structure and real hereditarily indecomposable Banach spaces.

	<i>Room 115</i>	<i>Room 10</i>	<i>Room 215</i>	<i>Room 229</i>
2:40–3:00	Lemmens	Acosta	Blasco	Grosse-Erdmann
3:10–3:30	Albiac	Anisca	Radelet	Petersson
3:40–4:00	Brinkman	González	Sprague	Androulakis
4:00–4:20	Coffee Break			
4:20–4:40	Randrianarivony	Avilés	Chong Li	
4:50–5:10	Nowak	Bandyopadhyay	El-Borai	
5:20–5:40	Czerwik	Troyanski	Sun	

Tuesday, May 23

9:15–10:05 Joram Lindenstrauss, Porous sets, Fréchet differentiability and Γ_n -null sets.

10:30–11:20 Vladimir Temlyakov, Greedy approximations in Banach spaces.

11:20–1:30 Lunch Break

1:30–2:20 Stephen Dilworth, Coefficient quantization in Banach spaces.

	<i>Room 115</i>	<i>Room 10</i>	<i>Room 215</i>	<i>Room 229</i>
2:40–3:00	Rosendal	Fourie	Diestel	Kamińska
3:10–3:30	Tang	Le Merdy	Talponen	Moraes
3:40–4:00	Raynaud	Teixeira	Wójtowicz	Sanacory
4:00–4:20	Coffee Break			
4:20–4:40	Farmaki	Voisei	Wood	
4:50–5:10	Zapletal	Simonett	Fleming	
5:20–5:40	Sari	Doust	Gal	

Wednesday, May 24

9:15–10:05 Lutz Weis, R -bounded sets in operators in analysis.

10:30–11:20 Gideon Schechtman, Weizmann Institute of Science, Fine estimates in Dvoretzky's theorem.

11:20–2:00 Picture and Lunch Break

	<i>Room 115</i>	<i>Room 10</i>	<i>Room 215</i>	<i>Room 229</i>
2:00–2:20	Domański	Ni	Alspach	Ournycheva
2:30–2:50	Cwikel	Lin	Basu	Shakhmurov
3:00–3:20	Kaijser	Day	Fabian	

5:30– Cash bar and Banquet, Multipurpose Room, Shriver Center

¹Each day, coffee will be served 8:45-9:15

Thursday, May 25

9:15–10:05 Thomas Schlumprecht, Embeddings into Banach spaces with finite dimensional decompositions.

10:30–11:20 Assaf Naor, Dvoretzky's theorem in metric spaces.

11:20–1:30 Lunch Break

1:30–2:20 Marianna Csörnyei, Structure of null sets, differentiability of Lipschitz functions, and other problems.

	<i>Room 115</i>	<i>Room 10</i>	<i>Room 215</i>	<i>Room 229</i>
2:40–3:00	Duda	M. Yaskina	Alber	Tylli
3:10–3:30	Maleva	Zvavitch	Jinlu Li	Tadesse
3:40–4:00	Jimenez-Sevilla	Litvak	Ostrovskii	Gupta
4:00–4:20	Coffee Break			
4:20–4:40	Mikkor	V. Yaskin	Patyi	
4:50–5:10	Brezhneva	Bator	Simon	
5:20–5:40	Dutrieux	Ghenciu	Georgiev	

Friday, May 26

9:15–10:05 Roman Vershynin, Functional analysis approach to linear programming.

10:30–11:20 Yuri Brudnyi, Multivariate functions of bounded variation.

11:20–1:30 Lunch Break

1:30–2:20 Jesús M. F. Castillo, Limit Banach spaces and the extension of operators.

	<i>Room 115</i>	<i>Room 10</i>	<i>Room 215</i>	<i>Room 229</i>
2:40–3:00	van Neerven	Helemskii	Lewicki	Seddighin
3:10–3:30	Hytönen	Goldstein	Skrzypek	Salas
3:40–4:00	G. Lancien	Fragoulopoulou	Shekhtman	Karaev
4:00–4:20	Coffee Break			
4:20–4:40	Kucherenko	Cabello-Sanchez	Mupasiri	
4:50–5:10	F. Lancien	Flores	van Gaans	
5:20–5:40	Portal	Hernandez	Bondre	

6:00– Barbeque, in front of Flower Hall

Saturday May 27

9:15–10:05 Edward Odell, On the structure of asymptotic ℓ_p spaces.

	<i>Room 115</i>	<i>Room 10</i>	<i>Room 215</i>
10:30–10:50	Tcaciuc	Lima	Leránoz
11:00–11:20	Kutzarova	Oja	Lennard
11:20–1:30	Lunch Break		
1:30–1:50	Beanland	Troitsky	Bu
2:00–2:20	Leung	Oikhberg	Acharya
2:30–2:50	Pelczar	Khan	Dutta

3:15–4:05 Gilles Godefroy, Non-linear isomorphisms between Banach spaces.

Monday May 22

Plenary Talks in Room 115

9:30–10:20 William B. Johnson *Texas A&M University*, Non linear factorization of linear operators.

10:30–11:20 Przemysław Wojtaszczyk *Warsaw University*, Results and problems on wavelet greedy approximation of functions of bounded variation.

1:30–2:20 Valentin Ferenczi *Université Paris VI*, Uniqueness of complex structure and real hereditarily indecomposable Banach spaces.

Short Talks in Room 115

2:40–3:00 Bas Lemmens *University of Warwick*, Dynamics of 1-Lipschitz maps.

3:10–3:30 Fernando Albiac *University of Missouri*, Lipschitz maps between quasi-Banach spaces.

3:40–4:00 Bo Brinkman *Miami University*, A technique for bounding the dimensionality of ℓ_1 -spaces.

4:20–4:40 Lova Randrianarivony *University of Missouri*, L_p is not uniformly homeomorphic to $\ell_p + \ell_2$ when $p < 2$.

4:50–5:10 Piotr Nowak *Vanderbilt University*, Coarse embeddings into Banach spaces and the Novikov conjecture.

5:20–4:40 Stefan Czerwik *Silesian University of Technology*, On the Ulam-Hyers stability of the functional equations in Banach spaces.

Short Talks in Room 10

2:40–3:00 María D. Acosta *Universidad de Granada*, An “isomorphic” version of James’s theorem.

3:10–3:30 Razvan Anisca *Lakehead University*, Theorem of Komorowski and Tomczak-Jaegermann, revisited.

3:40– 4:00 Manuel González *Universidad de Cantabria*, Local duality for Banach spaces: examples and characterizations.

4:20–4:40 Antonio Avilés *University of Murcia*, Renormings of the duals of James tree spaces.

4:50–5:10 Pradipta Bandyopadhyay *Indian Statistical Institute*, Almost constrained subspaces of $C(K)$ -II.

5:20– 4:40 Stanimir Troyanski *University of Murcia*, Banach spaces with modulus of convexity of power type 2.

Short Talks in Room 215

- 2:40–3:00 Oscar Blasco** *University of Valencia*, A Coiffman-Weiss transference method for bilinear and maximal bisublinear operators and applications.
- 3:10–3:30 Daniel P. Radelet** *University of Pittsburgh*, Reconstruction using Markushevich and Cesàro bases.
- 3:40– 4:00 Emily H. Sprague** *University of Wisconsin*, An application of uniform integrability to the characterization of Walsh Fourier series.
- 4:20–4:40 Chong Li** *Zhejiang University, Hangzhou*, Existence and well-posedness in approximation theory in Banach spaces.
- 4:50– 5:10 Mahmoud Mohammed Mostafa El-Borai** *Alexandria University*, On some stochastic fractional integrodifferential equations.
- 5:20– 5:40 Lian Sun** *Beijing Guojing Pengrun Science & Trade Co., Ltd.*, Trying to capture dynamic behavior.

Short Talks in Room 229

- 2:40–3:00 Karl Grosse-Erdmann** *Fachbereich Mathematik*, Frequently hypercyclic operators.
- 3:10–3:30 Henrik Petersson** *Chalmers*, Hypercyclic operators with hypercyclic adjoints.
- 3:40– 4:00 George Androulakis** *University of South Carolina*, The invariant subspace problems for Banach spaces.

Tuesday May 23

Plenary Talks in Room 115

9:30–10:20 Joram Lindenstrauss *Hebrew University*, Porous sets, Fréchet differentiability and Γ_n null sets.

10:30–11:20 Vladimir Temlyakov *University of South Carolina*, Greedy approximations in Banach spaces.

1:30– 2:20 Stephen Dilworth *University of South Carolina*, Coefficient quantization in Banach spaces.

Short Talks in Room 115

2:40–3:00 Christian Rosendal *University of Illinois*, Infinite asymptotic games.

3:10–3:30 Wee-Kee Tang *Nanyang Technological University, National Inst. of Education, Singapore*, Extension of functions with small oscillation.

3:40– 4:00 Yves Raynaud *Institut de Mathématiques de Jussieu*, Positive contractive projections in $L_p(L_q)$, with applications to axiomatizability theory.

4:20–4:40 Vasiliki Farmaki *Athens University*, Schreier families of variable located words.

4:50– 5:10 Jindrich Zapletal *University of Florida*, Ramsey capacities.

5:20– 5:40 Bünyamin Sarı *University of North Texas*, Lattice structures and spreading models.

Short Talks in Room 10

2:40–3:00 Jan Fourie *North-West University*, On operator valued sequences of multipliers and R -boundedness.

3:10–3:30 Christian Le Merdy *Université de Franche-Comté*, H^p -Maximal regularity and operator valued multipliers on Hardy spaces.

3:40– 4:00 Eduardo V. Teixeira *Rutgers University*, Regularity theory for differential equations in abstract spaces and applications to nonlinear PDEs.

4:20–4:40 M. D. Voisei *The University of Texas-Pan American*, Monotonicity representability and maximality via the Fitzpatrick function.

4:50– 5:10 Gieri Simonett *Vanderbilt University*, Operator-valued symbols for elliptic and parabolic problems on wedges.

5:20– 5:40 Ian Doust *University of New South Wales*, Norm bounds for families of projections.

Short Talks in Room 215

2:40–3:00 Geoff Diestel *University of Missouri*, Sobolev spaces with only trivial isometries.

3:10–3:30 Jarno Talponen *University of Helsinki* On the Banach-Mazur rotation problem.

3:40– 4:00 Marek Wójtowicz *Casimir the Great University*, An isometric form of the theorem of Lindenstrauss and Rosenthal on quotients of $\ell_1(\Gamma)$.

4:20–4:40 Geoffrey Wood *University of Wales*, Transitive norms and unitary Banach algebras.

4:50– 5:10 Richard J. Fleming *Central Michigan University*, Bohnenblust's Theorem and norm-equivalent coordinates.

5:20– 5:40 Nadia J. Gal *The University of Memphis*, Isometries and isometric equivalence of Hermitian operators on $A^{1,p}(X)$.

Short Talks in Room 229

2:40–3:00 Anna Kamińska *The University of Memphis*, On the extensions of homogeneous polynomials.

3:10–3:30 Luiza A. Moraes *Universidade Federal do Rio de Janeiro*, On the extension of polynomials on Banach spaces.

3:40– 4:00 Frank Sanacory *University of South Carolina*, On the compact plus multiple of the inclusion problem.

Wednesday May 24

Plenary Talks in Room 115

9:30–10:20 Lutz Weis *Universität Karlsruhe*, R-bounded sets of operators in analysis.

10:30–11:20 Gideon Schechtman *Weizmann Institute of Science*, Fine estimates in Dvoretzky's theorem.

Short Talks in Room 115

2:00–2:20 Paweł Domański *Adam Mickiewicz University*, Interpolation inequalities between norms in spaces of distributions and real analytic functions.

2:30–2:50 Michael Cwikel *Technion, Israel Institute of Technology*, K -divisibility constants for some special Banach and Hilbert couples.

3:00– 3:20 Sten Kaijser *Uppsala University*, More on K -divisibility.

Short Talks in Room 10

2:00–2:20 Ren Xing Ni *Shaoxing College of Arts and Sciences*, The convergence of an implicit iteration scheme for a finite family of asymptotically quasi-nonexpansive mappings.

2:30–2:50 Pei-Kee Lin *The University of Memphis*, There is an equivalent norm of ℓ_1 that has the fixed point property.

3:00– 3:20 Jerry Day *University of Pittsburgh*, Minimal invariant sets of Alspach's map.

Short Talks in Room 215

2:00–2:20 Dale Alspach *Oklahoma State University*, Partition and weight spaces with the KP property.

2:30–2:50 Sudeshna Basu *Morgan State University*, Ball intersection properties in Banach spaces.

3:00– 3:20 Marián Fabian *Czech Academy of Sciences*, Weakly compactly generated spaces and their relatives.

Short Talks in Room 229

2:00–2:20 Elena Ournycheva *Kent State University*, Composite Cosine Transforms on Stiefel Manifolds.

2:40–2:50 Veli B. Shakhmurov *Istanbul University*, Operator-valued multipliers in weighted L_p -spaces and applications.

Thursday May 25

Plenary Talks in Room 115

9:30–10:20 Thomas Schlumprecht *Texas A&M University*, Embeddings into Banach spaces with finite dimensional decompositions.

10:30–11:20 Assaf Naor *Microsoft Research*, Dvoretzky's theorem in metric spaces.

1:30– 2:20 Marianna Csörnyei *University College*, Structure of null sets, differentiability of Lipschitz functions, and other problems.

Short Talks in Room 115

2:40–3:00 Jakub Duda *Weizmann Institute of Science*, Metric derived numbers and continuous metric differentiability via homeomorphisms.

3:10–3:30 Olga Maleva *University of Cambridge*, Unavoidable sigma-porous sets.

3:40– 4:00 Mar Jimenez-Sevilla *Universidad Complutense de Madrid*, Approximation by smooth functions with no critical points in separable Banach spaces.

4:20–4:40 Kristel Mikkor *Tartu University*, Uniform factorization for compact sets of operators acting from a Banach space to its dual space.

4:50– 5:10 Olga Brezhneva *Miami University*, Implicit function theorems for nonregular mappings in Banach spaces.

5:20– 5:40 Yves Dutrieux *Université de Franche-Comté*, Lipschitz free space of $C(K)$ -spaces.

Short Talks in Room 10

2:40–3:00 Maryna Yaskina *University of Missouri*, Centroid bodies and comparison of volumes.

3:10–3:30 Artem Zvavitch *Kent State University*, On Gaussian measure of sections of dilations and shifts of convex bodies.

3:40– 4:00 Alexander Litvak *University of Alberta*, A covering lemma and its applications.

4:20–4:40 Vladyslav Yaskin *University of Missouri*, The geometry of L_0 .

4:50– 5:10 Elizabeth Bator *University of North Texas*, c_0 , ℓ^∞ , and complemented subspaces of $L(X, Y)$.

5:20– 5:40 Ioana Ghenciu *University of Wisconsin*, Complemented spaces of operators.

Short Talks in Room 215

2:40–3:00 Yakov Alber *Technion-Israel Institute of Technology*, Generalized projection operators in Banach spaces.

3:10–3:30 Jinlu Li *Shawnee State University*, Relationship between metric and generalized projections in Banach spaces.

3:40– 4:00 Mikhail I. Ostrovskii *St.-John's University*, Compositions of projections in Banach spaces and relations between approximation properties.

4:20–4:40 Imre Patyi *Georgia State University*, Lifting and right invertibility of holomorphic operator functions.

4:50– 5:10 Scott Simon *Purdue University*, Inhomogeneous Cauchy-Riemann equations in Banach spaces.

5:20– 5:40 Pando Georgiev *University of Cincinnati*, Variational principles in Banach spaces-parametric versions.

Short Talks in Room 229

2:40–3:00 Hans-Olav Tylli *University of Helsinki*, Composition operators on vector-valued harmonic functions and Cauchy transforms.

3:10–3:30 Abebaw Tadesse *University of Pittsburgh*, Compact composition operators on the Hardy and Bergman spaces.

3:40– 4:00 Manjul Gupta *Indian Institute of Technology*, Banach spaces of entire sequences and their Köthe duals.

Friday May 26

Plenary Talks in Room 115

9:30–10:20 Roman Vershynin *University of California-Davis* Functional analysis approach to linear programming?

10:30–11:20 Yuri Brudnyi *Technion - Israel Institute of Technology*, Multivariate functions of bounded variation.

1:30– 2:20 Jesús M. F. Castillo *University of Extremadura*, Limit Banach spaces and the extension of operators.

Short Talks in Room 115

2:40–3:00 Jan van Neerven *Technical University Delft*, Uniformly γ -radonifying families of operators.

3:10–3:30 Tuomas Hytönen *University of Turku*, Probabilistic Littlewood-Paley theory in Banach spaces.

3:40– 4:00 Gilles Lancien *Université de Franche-Comté*, Spectral theory for linear operators on L^1 or $C(K)$ spaces.

4:20–4:40 Tamara Kucherenko *University of California Los Angeles* Absolute functional calculus for sectorial operators.

4:50– 5:10 Florence Lancien *Université de Franche-Comté*, Square functions and H^∞ functional calculus for sectorial operators on subspaces of L^p .

5:20– 5:40 Pierre Portal *Australian National University*, Sectorial operators and H^∞ -functional calculus in a discrete setting.

Short Talks in Room 10

2:40–3:00 Alexander Ya. Helemskii *Moscow State University*, Highlights of homology theory in classical and quantum functional analysis.

3:10–3:30 Stanisław Goldstein *University of Łódź*, Twisting noncommutative L^p -spaces.

3:40– 4:00 Maria Fragoulopoulou *University of Athens*, When an enveloping pro- C^* -algebra is a genuine C^* -algebra?

4:20–4:40 Félix Cabello Sánchez *Universidad de Extremadura*, Some weak forms of injectivity for Banach spaces, with applications to ultraproducts.

4:50– 5:10 Julio Flores *Universidad Rey Juan Carlos*, Domination by positive Banach-Saks operators.

5:20– 5:40 Francisco L. Hernandez *Universidad Complutense de Madrid*, Strict singularity and disjoint strict singularity in rearrangement invariant spaces.

Short Talks in Room 215

2:40–3:00 Grzegorz Lewicki *Jagiellonian University*, Minimal multi-convex projections.

3:10–3:30 Leslaw Skrzypek *University of South Florida*, Minimal projections in L_p -spaces.

3:40– 4:00 Boris Shekhtman *University of South Florida*, Perturbation of ideal complements.

4:20–4:40 Douglas Mupasiri *University of Northern Iowa*, On the difficulty of preserving monotonicity via projections and related results.

4:50– 5:10 Onno van Gaans *Leiden University*, One-complemented subspaces of finite dimensional vector spaces with smooth lattice norms.

5:20– 5:40 Sarita Bondre *The M.S. University of Baroda*, Structural properties of spaces of fuzzy number valued functions.

Short Talks in Room 229

2:40–3:00 Morteza Seddighin *Indiana University East*, Algorithms for computation of antieigenvalues.

3:10–3:30 Héctor Salas *University of Puerto Rico*, Pathological hypercyclic operators.

3:40– 4:00 Mubariz T. Karaev *Suleyman Demirel University*, On some problems in the Banach spaces with basis.

Saturday May 27

Plenary Talks in Room 115

9:15–10:05 Edward Odell *University of Texas*, On the structure of asymptotic ℓ_p spaces.

3:15–4:05 Gilles Godefroy *Université Paris VI*, Non-linear isomorphisms between Banach spaces.

Short Talks in Room 115

10:30–10:50 Adi Tcaciuc *University of Alberta*, On the existence of asymptotic- ℓ_p structures in Banach spaces.

11:00–11:20 Denka Kutzarova *University of Illinois*, On strongly asymptotic ℓ_p spaces and minimality.

1:30– 1:50 Kevin Beanland *University of South Carolina*, A hereditarily indecomposable asymptotic ℓ_2 Banach space.

2:00–2:20 Denny H. Leung *National University of Singapore*, Comparing mixed Tsirelson spaces and their modified versions.

2:30– 2:50 Anna Pelczar *Jagiellonian University*, Stabilization of Tsirelson-type norms on ℓ_p spaces.

Short Talks in Room 10

10:30–10:50 Vegard Lima *Agder University College*, Ideals of operators and the weak metric approximation property.

11:00–11:20 Eve Oja *Tartu University*, Grothendieck's theorem on nuclear operators revisited.

1:30– 1:50 Vladimir Troitsky *University of Alberta*, Norm closed ideals in $\mathcal{L}(\ell_p \oplus \ell_q)$.

2:00–2:20 Timur Oikhberg *University of California-Irvine*, Hyperreflexivity with respect to operator ideals.

2:30– 2:50 Liaqat Ali Khan *King Abdul Aziz University*, Topological modules of continuous multipliers.

Short Talks in Room 215

10:30–10:50 Camino Leránoz *Universidad Pública de Navarra*, Geometric properties of quasi-Banach spaces.

11:00–11:20 Chris Lennard *University of Pittsburgh*, L_+^p is uniformly concave for $0 < p < 1$.

1:30– 1:50 Qingying Bu *University of Mississippi*, Radon-Nikodym property for Fremlin projective tensor product of Banach lattices.

2:00–2:20 Lipi Rani Acharya, *Indian Institute of Technology*, Diagonal operators between vector-valued sequence spaces and measure of compactness.

2:30– 2:50 Sudipta Dutta *Ben-Gurion University*, On tree characterizations of some Banach spaces.