THE HEBREW UNIVERSITY OF JERUSALEM

THE ISRAEL INSTITUTE FOR ADVANCED STUDIES

BANACH SPACES: GEOMETRY AND ANALYSIS

Memorial Conference for Joram Lindenstrauss

May 26-31, 2013

Feldman Building, Edmond J. Safra Campus at Givat Ram, Jerusalem

Organizing Committee:

Gideon Schechtman (Weizmann Institute of Science) Tomek Szankowski (The Hebrew University of Jerusalem) Benjamin Weiss (The Hebrew University of Jerusalem)

Sunday, May 26

08:30-09:30 Registration at IIAS Lobby

09:45-10:00 Welcome

PROGRAM

10:00-10:20	Bill Johnson (Texas A&M) Joram and Me and the Real Story behind the
	Johnson-Lindenstrauss Lemma

10:30-11:10 Vitali Milman (Tel Aviv) Asymptotic Theory of Convexity: From the Study of "Shapes" to the Study of Measure Distributions

11:10-11:40 Coffee break

- 11:40-12:30 Mark Rudelson (University of Michigan) Non-Asymptotic Approach in Random Matrix Theory
- 14:00-14:50Stanislaw Szarek (Case Western University and Université Paris 6) Quantum
Marginals, Majorization and Geometry of Banach

AFTERNOON SESSION Room 130 Room 128

- 15:00-15:30 Alexander Koldobsky (University of Missouri) Complex Intersection Bodies Olga Maleva (University of Birmingham) Null Universal Differentiability Sets
- 15:40-16:10 Michal Wojciechowski (Polish Academy, Warsaw) On the Norm of Homomorphic Embeddings of Fourier Algebras
 Beata Randrianantoanina (Miami) On Interval Based Generalizations of Absolute Continuity for Functions on Rⁿ

16:10-16:40	Coffee break
16:40-17:10	Alexander Litvak (University of Alberta) The Numerical Range of Random Matrices
17:20-17:50	Carsten Schutt (University of Kiel) Affine Invariant Points
18:00-18:30	Elisabeth Werner (Case Western) Divergence Inequalities for s-concave and Log concave Functions Wolfgang Lusky (University of Paderborn) On Weighted Banach of Analytic Functions Mikhail Ostrovskii (St. John's) On Metric Characterizations of the Radon- Nikodym and Related Properties of Banach Bentuo Zheng (University of Memphis) Banach with the Approximation Property which Fail the Strong Approximation Property
18:30	Reception at IIAS Lobby

Monday, May 27

09:10-10:00	Charles Fefferman (Princeton) Finding Outliers	
10:30-11:20	Sergei Kisliakov (PDMI, St. Petersburg) Differential Expressions of Mixed Homogeneity and of Smooth Functions which They Generate	
11:30-12:20	Rafal Latala (University of Warsaw) On the Boundedness of Bernoulli Processes	
14:00-14:50	Boaz Klartag (Tel Aviv) Concentration of Measures Supported on the Cube and the Stability of the Brunn- Minkowski Inequality	
15:00-15:30	Paul Muller (University of Linz) Davis-Garsia Inequalities for Hardy Martingales and Dyadic Perturbations	
AFTERNOON SESSION Room 130		
15:40-16:10	Przemyslaw Wojtaszczyk (University of Warsaw) Conditional Quasi-Greedy Bases in Hilbert Space Eilat Hall Eva Kopecka (University of Innsbruck) A Product of Three Projections	
16:10-16:40	Coffee break	
16:40-17:10	Emanuel Milman (Technion) Towards Generalizations of Sudakov's Inequality and the Johnson-Lindenstrauss Lemma	
17:20-17:50	Niels Joergen Nielsen (Odense) On GL which have the Grothendieck Property GT Ludek Zajicek (Charles University, Prague) New Applications of Gamma - Null Sets Sean Li (New York) Coarse Differentiation of Lipschitz Maps	

Tuesday, May 28

09:10-10:00 Hillel Furstenberg (The Hebrew University of Jerusalem) Amenability, the Fixed Point Property, and Harmonic Functions
10:30-11:20 David Preiss (University of Warwick) Differentiability of Lipschitz Functions
11:30-12:20 Assaf Naor (New York) Vertical Perimeter versus Horizontal Perimeter
14:00-19:00 Excursion to the Old City of Jerusalem
19:00 Dinner at the Terasa Restaurant

Wednesday, May 29

- 09:10-10:00 Elon Lindenstrauss (The Hebrew University of Jerusalem) Spectral gap and self-similar measures
- 10:30-11:20 Spiros Argyros (NTU of Athens) A Reflexive Space with the Hereditary Invariant Subspace Property
- 11:30-12:20 Thomas Schlumprecht (Texas A&M) Bases Formed by Translates of One Element in L_p(R)
- 14:00-14:30 Hermann Konig (University of Kiel) Best Constants in the Khintchine-Steinhaus Inequality
- 14:40-15:10 Haskell Rosenthal (University of Texas, Austin) A possible counter example to the Hyperinvariant Subspace Problem

AFTERNOON SESSION Room 130 Room 128

- 15:20-15:50 Jelani Nelson (Harvard) Random matrices, dimensionality reduction, and faster numerical linear algebra algorithms
- 16:00-16:20 Nikhil Srivastava (Princeton) TBA Konstantin Tikhomirov (University of Alberta) Almost Euclidean Sections in Symmetric Eugeniu Spinu (Lakehead) Subprojective Banach
- 16:20-16:50 Coffee break
- 17:00-17:30 Radoslaw Adamczak (University of Warsaw) Concentration Inequalities for Non- Lipschitz Functions with Bounded Derivatives of Higher Order Florent Baudier (Texas A&M) On the Utilization of Symmetric Difference Metrics in Nonlinear Geometry of Banach
- 17:40-18:00 Daniel Reem (IMPA, Brazil) Order Preserving and Order Reversing Operators on the Class of Convex Functions in Banach Bunyamin Sari (University of North Texas) On Conditional Spreading Sequences and Banach with \$c_0\$ Spreading (and Asymptotic) Models

18:10-18:30	Dan Freeman (Saint Louis) Equilateral Sets in Uniformly Smooth Banach Alejandro Chavez (University of Texas, Austin) Tensor Products of Operator and Completely \$p\$- Summing Maps
19:00	Visit to Herod the Great exhibit, and dinner at the Israel Museum (for participants who confirmed in advance)
19:00-19:15	Meeting at Museum entrance
19:15-20:30	Herod exhibit, Shrine of the Book, Second Temple Model
20:30	Dinner at the Museum's Modern Restaurant (These two events are sponsored by the Lindenstrauss family)

Thursday, May 30

09:00-09:40	Nicole Tomczak-Jaegerman (University of Alberta) Geometry of Log-Concave Ensembles and Applications	
09:50-10:20	Semyon Alesker (Tel Aviv) On Extendability by Continuity of Valuations on Convex Polytopes	
10:20-10:50	Coffee break	
10:50-11:40	Vladimir Fonf (Ben-Gurion) TBA	
11:50-12:20	Gilles Godefroy (Université Paris 6) Smoothness of Banach and Joram Lindenstrauss' Pioneering Works	
12:30-13:00	Apostolos Giannopoulos (University of Athens) Geometry of Isotropic Log- Concave Measures	
13:00-14:30	Lunch	
The following lectures will take place in the Mathematics (Einstein) Bldg., Hall 2		
14:30-15:30	Bela Bollobas (University of Cambridge) Bootstrap Percolation in all Dimensions	
15:30-16:00	Coffee break	
16:00-16:40	Rolf Schneider (University of Freiburg) Convex Bodies from the Generic Viewpoint	
16:50-17:20	Krzysztof Oleszkiewicz (University of Warsaw) On Mimicking a Rademacher Sequence	
17:30	Farewell party at the IIAS Lobby	