

OPERATOR THEORY AND OPERATOR ALGEBRAS

Organizers: Daniel Alpay and Orr Shalit

Ben-Gurion University of the Negev, Beer-Sheva
May 21 to May 24, 2012

PROGRAM

Acknowledgments

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Monday, May 21: Room -101 (Deichmann Building).

09:30–10:00: Reception + light refreshments.

10:00–10:10: Greetings,

Prof. Ronen Peretz, Head of the Department of Mathematics.

Prof. Miriam Cohen, Head of the Center for Advanced Studies in Mathematics.

10:10–10:50: Paul Fuhrmann, *Controllability and observability of networks of linear systems.*

11:00–11:40: Abraham Feintuch, *The stable rank of subalgebras of a nest algebra.*

LUNCH

13:40–14:20: Vladimir Bolotnikov, *Weighted Bergman spaces: shift-invariant subspaces and input/state/output linear systems.*

14:30–15:10: Palle Jorgensen, *Analytic, algebraic, and group theoretic, tools in wavelets and filters.*

COFFEE BREAK

15:30–16:10: Guy Salomon, *Topological convolution algebras.*

16:20–17:00: Eli Shamovich, *Livsic overdetermined conservative systems on Lie Groups.*

Tuesday, May 22: Room -101 (Deichmann Building).

09:10–9:50: Dan Volog, *Rational discrete analytic functions*.

10:00–10:40: Victor Katsnelson, *Spectral theory of the Fourier operator truncated on the positive half-axis*.

COFFEE BREAK

11:00–11:40: Alexander Ukhlov, *Composition operators on Sobolev spaces*.

11:50–12:30: Mamadou Mboup, *Title TBA*.

LUNCH

14:30–15:30: John McCarthy, *Operator Monotone Functions of Several Variables* (Math Department Colloquium).

COFFEE BREAK

15:50–16:30: Shibananda Biswas, *On the curvature inequality*.

16:40–17:10: David Kimsey, *Multivariable matrix-valued moment problems*.

Wednesday, May 23: Room -101 (Deichmann Building).

09:10–9:50: Paul Muhly, *Endomorphisms vs. Transfer Operators: What's the difference?*

10:00–10:40: Aldo Lazar, *Centers and centroids of C^* -algebras.*

COFFEE BREAK

11:00–11:40: David Shoikhet, *Abelian averages of discrete and continuous semigroups.*

11:50–12:30: Daniel Markiewicz, *The even gauge group of Powers' non-spatial E_0 -semigroups.*

LUNCH

14:30–15:10: Mark Elin, *Extension operators in Geometric Function Theory.*

15:20–16:00: Ilan Hirshberg, *Decomposable approximations of nuclear C^* -algebras.*

COFFEE BREAK

16:20–17:00: Joav Orovitz, *C^* -algebras and tracial \mathcal{Z} -absorption.*

Thursday, May 24: Room -101 (Deichmann Building).

09:30–10:20: Daniel Alpay, *Schur analysis in the quaternionic setting.*

COFFEE BREAK

10:40–11:10: Alon Kipnis, *Chaos expansion approach for optimal prediction of Gaussian processes.*

11:20–12:00: Orr Shalit, *Dilation theory in finite dimensions.*

LUNCH

14:00–14:40: Izchak Lewkowicz, *Interpolation of Polynomials with Symmetries on the Imaginary Axis.*

14:50–15:30: Harry Dym, *Trace formulas for Toeplitz-like operators.*

CONCLUDING REMARKS