

14th WORKSHOP: NON-COMMUTATIVE HARMONIC ANALYSIS,
25.09- 1.10.2011, Będlewo, Poland

Sunday, September 25

19:00 **Dinner**

Monday, September 26

08:00–09:00 **Breakfast**

09:00–09:05 **Opening**

09:05–09:50 **Yasuyuki Kawahigashi (University of Tokyo)**
N=2 superconformal field theory and noncommutative geometry

09:55–10:40 **Joachim Cuntz (Mathematisches Institut Westfälische Wilhelms-Universität Münster)**
The regular C^* -algebras of some semigroups from number theory

10:40–11:10 **Coffee break**

11:10–11:50 **László Zsido (Dipartimento di Matematica, Università di Roma "Tor Vergata")**
Relative weakly mixing for non-commutative dynamical systems

11:55–12:25 **Nobuaki Obata (Tohoku University)**
Spectral analysis of Manhattan products of digraphs

12:30–13:00 **Octavio Arizmendi (Universität des Saarlandes)**
On a class of explicit Cauchy-Stieltjes transforms related to monotone stable and free Poisson laws

13:00–14:00 **Lunch**

big 15:30–16:00

Michael Brannan (Queen's University, Kingston)
Reduced von Neumann algebras of quantum permutation groups

big 16:05–16:35

Dariusz Chruściński (Nicolaus Copernicus University, Toruń)
Non-Markovian evolution of quantum systems

small 15:30–16:00

Helene Airault (Université de Picardie Jules Verne, Inset & LAMFA)
Ornstein-Uhlenbeck operators on a Kähler manifold and infinitesimal representation of a Lie group representations, some examples

small 16:05–16:35

Nobuhiro Asai (Aichi University of Education)
The Brenke type generating functions and orthogonal polynomials.

16:35–17:10 **Coffee and cakes**

big 17:10–17:40

Bartosz Kwaśniewski (University of Białystok)

C*-algebras generalizing both Cuntz-Pimsner and Doplicher-Roberts algebras

big 17:45–18:15

Hiroshi Ando (University of Copenhagen & Kyoto University)

Embedding of Polish groups into unitary groups of II_1 factors (joint work with Yasumichi Matsuzawa at Leipzig & Hokkaido university).

small 17:10–17:40

Matthew Brown (University of Nottingham)

The Quantum Stochastic (QS) Duhamel Principle

small 17:45–18:15

Maxim Derevyagin (National Academy of Science of Ukraine)

On the λ -dynamics of the orthogonal polynomials corresponding to the Jacobi matrix $L + \lambda M$

19:00–20:00 **Dinner**

20:00–21:00 **Baby Talk–Fedor Sukochev**

On the Rosenthal-Johnson-Schechtman inequalities in symmetric function spaces

Tuesday, September 27

08:00–09:00 **Breakfast**

09:00–09:45 **Fedor Sukochev (University of New South Wales, Sydney)**
On the Rosenthal inequalities in noncommutative symmetric spaces

09:50–10:35 **Christian Le Merdy (Besançon Université de Franche-Comté)**
Operators and their square functions on noncommutative L_p -spaces.

10:35–11:10 **Coffee break**

11:10–11:50 **Hiroaki Yoshida (Ochanomizu University, Tokyo)**
Integral representations of the relative free entropy associated with semicircular gradients

11:55–12:25 **Mikael de la Salle (Besançon Université de Franche-Comté)**
Non-commutative L_p spaces without the operator space approximation property.

12:30–13:00 **Takahiro Hasebe (Research Institute for Mathematical Sciences, Kyoto University)**
Semigroups related to additive and multiplicative, free and Boolean convolutions

13:00–14:00 **Lunch**

15:30–16:00 **Un Cig Ji (Chungbuk National University)**
Quantum Stochastic Calculus Associated with Quadratic Quantum White Noises

big 16:05–16:35
Andrzej KomisarSKI (University of Łódź)
On minimal number of measurements, which form an informationally complete system

small 16:05–16:35
Anna Kula (Jagiellonian University, Kraków)
Lévy Processes on compact quantum groups: from symmetries to derivation and beyond

16:35–17:10 **Coffee and cakes**

big 17:10–17:40
Andrzej Łuczak (University of Łódź)
Cloning and broadcasting states

small 17:10–17:40
Michael Skeide (Universita degli Studi del Molise, Campobasso)
Free Product Systems

small 17:45–18:15
Alina Kargol (Maria Curie-Skłodowska University, Lublin)
Decay of Correlations in Ferromagnetic Quantum Models

19:00 **Banquet**

Wednesday,	September 28
08:00–09:00	Breakfast
09:00–09:45	Daniel Alpay (Ben-Gurion University of the Negev) Linear stochastic systems and a new class of commutative rings
09:50–10:35	Eugene Lytvynov (Swansea University) Meixner's orthogonal polynomials in classical and non-commutative probability
10:35–10:45	Picture
10:45–11:10	Coffee break
11:10–11:50	Romuald Lenczewski (Wrocław University of Technology) Matricial R-transform
11:55–12:25	Seung-Hyeok Kye (Seoul National University) Product vectors and their partial conjugates
12:30–13:00	Janusz Wysoczański (University of Wrocław) Introduction to generalized (anyon) statistics (joint work with M. Bozejko and E. Lytvynov)
13:00–14:00	Lunch
14:00	Excursion to Kórnik and Puszczykowo
16:30–17:00	Coffee and cakes
19:00–20:00	Dinner
20:00–21:15	Baby Talk–Roland Speicher and Moritz Weber Quantum Groups Made Easy; featuring "the lost quantum group"

Thursday,	September 29
08:00–09:00	Breakfast
09:00–09:45	Alexander Soshnikov (University of California, Davis) On fluctuation of matrix entries of regular functions of Wigner matrices and outliers in the spectrum of finite rank perturbations.
09:50–10:35	Mirelle Capitaine (Institut de Mathématiques de Toulouse) Free subordination property and deformed matricial models
10:35–11:10	Coffee break
11:10–11:50	Maciej Nowak (Jagiellonian University, Kraków) Multiplication law and S transform for non-hermitian random matrices
11:55–12:25	Ion Nechita (CNRS, Université de Toulouse) Block-modified Wishart matrices and applications to entanglement theory
12:30–13:00	José Luis da Silva (University of Madeira) Poisson grey noise in infinite dimensions
13:00–14:00	Lunch
16:30–17:00	Coffee and cakes
17:00–18:00	Poster session
19:00	Barbecue

Friday,	September 30
08:00–09:00	Breakfast
09:00–09:45	Fumio Hiai (Tohoku University) Jensen and Minkowski type inequalities for operator means (joint work with J.-C. Bourin)
09:50–10:35	Piotr Śniady (Polish Academy of Sciences, Warsaw) Trajectories of jeu-de-taquin (joint work with Dan Romik)
10:35–11:10	Coffee break
11:10–11:50	Quanhua Xu (Besançon Université de Franche-Comté) Harmonic analysis on noncommutative tori
11:55–12:25	Denes Petz (Budapest University of Technology and Economics) Some structures of finite dimensional Hilbert spaces (motivated by quantum theory)
12:30–13:00	Marie Choda (Osaka Kyoiku University) Entropy for unital completely positive maps
13:00–14:00	Lunch
16:30–17:00	Coffee and cakes
19:00–20:00	Dinner
20:00–21:00	Problem session

Saturday,	October 1
08:00–09:00	Breakfast
09:00–09:45	Robin Hudson (Loughborough University) Quantum Lévy area
09:50–10:35	Stanisław Woronowicz (University of Warsaw) Multiplicative unitary for the quantum double
10:35–11:10	Coffee break
11:10–11:50	Adam Paszkiewicz (University of Łódź) On general form of quantum information
11:55–12:25	Janosch Ortman (Warwick Mathematics Institute) Large Deviations for Non-crossing partitions and applications to free probability
12:30–13:00	Franz Lehner (Technische Universität Graz) Characterization Problems in Free Probability
12:45	Lunch
13:00–13:05	Closing