

**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 Zsidó (Dipartimento di Matematica, Universita 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	
big 16:05–16:35	
16:35–17:10	Coffee and cakes
small 15:30–16:00	
small 16:05–16:35	

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.

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 Yasumi-chi 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 (Università 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 108:00–09:00 **Breakfast**09:00–09:45 **Robin Hudson (Loughborough University)**
Quantum Lévy area09:50–10:35 **Stanisław Woronowicz (University of Warsaw)**
Multiplicative unitary for the quantum double10:35–11:10 **Coffee break**11:10–11:50 **Adam Paszkiewicz (University of Łódź)**
On general form of quantum information11:55–12:25 **Janosch Ortmann (Warwick Mathematics Institute)**
Large Deviations for Non-crossing partitions and applications to free probability12:30–13:00 **Franz Lehner (Technische Universität Graz)**
Characterization Problems in Free Probability12:45 **Lunch**13:00–13:05 **Closing**