

**13th WORKSHOP: NON-COMMUTATIVE HARMONIC ANALYSIS,  
11 - 17.07.2010, Będlewo, Poland**

<b>Sunday,</b>	<b>July 11</b>
19:00	<b>Dinner</b>
<b>Monday,</b>	<b>July 12</b>
08:00–09:00	<b>Breakfast</b>
09:00–09:05	<b>Opening</b>
09:05–09:50	<b>Takeyuki Hida (Nagoya &amp; Meijo)</b> A noise of new type and its generalized functionals.
09:55–10:40	<b>Robin Hudson (Loughborough)</b> Yangians and quantum stochastic calculus.
10:40–11:10	<b>Coffee break</b>
11:10–11:50	<b>Alexander Soshnikov (UC Davis)</b> On local distribution of eigenvalues in Wigner random matrices.
11:55–12:25	<b>Anna Kula (Kraków)</b> Brownian motions with BM-independent increments.
12:30–13:00	<b>Marcin Marciniak (Gdańsk)</b> On exposed positive maps.
13:00–14:00	<b>Lunch</b>
16:30–17:00	<b>Coffee and cakes</b>
17:00–17:25	<b>Takuho Miyamoto (Tohoku)</b> Orbital Approach to Microstate Free Entropy.
17:30–17:55	<b>Stefan Wagner (Darmstadt)</b> A new characterization of free group actions and a geometric approach to non-commutative principal $\mathbb{T}^n$ -bundles.
18:00–18:25	<b>Helene Airault (Institut-LAMFA)</b> Brownian motion on univalent functions.
18:30–18:55	<b>Naofumi Muraki (Iwate)</b> On a certain ‘ $q$ -deformation’ of free independence.
19:00–20:00	<b>Dinner</b>
20:00–21:00	<b>Baby Talk – Joachim Cuntz</b> Purely infinite $C^*$ -S-algebras.

**Tuesday, July 13**

08:00–09:00 **Breakfast**

09:00–09:45 **Joachim Cuntz (Münster)**  
Cantor systems and number fields.

09:50–10:35 **Ken Dykema (Texas A&M)**  
Bound on the spectral radius of random walks on nonamenable Baumslag-Solitar groups.

10:35–11:10 **Coffee break**

11:10–11:50 **Franz Lehner (Graz)**  
Free Lamplighter Groups and a Question of Atiyah.

11:55–12:25 **Nobuaki Obata (Tohoku)**  
Quantum probabilistic aspect to random walks on graphs.

12:30–13:00 **Masato Mimura (Tokyo)**  
Fixed-point and Kazhdan-type theorems for universal lattice on Banach spaces.

13:00–14:00 **Lunch**

16:30–17:00 **Coffee and cakes**

19:00 **Banquet**

**Wednesday, July 14**

08:00–09:00 **Breakfast**

09:00–09:45 **Włodek Bryc (Cincinnati)**  
Meixner matrix ensembles.

09:50–10:35 **Wojciech Szymański (IMADA)**  
Endomorphisms of the Cuntz Algebras.

10:35–10:45 **Picture**

10:45–11:10 **Coffee break**

11:10–11:50 **Claus Küstler (Aberystwyth)**  
Symmetry and independence in noncommutative probability.

11:55–12:25 **Takahiro Hasebe (Kyoto)**  
Joint cumulants for natural independence.

12:30–13:00 **Hiroaki Yoshida (Tokyo)**  
On the free Fisher information distance and the logarithmic Sobolev inequality.

13:00–14:00 **Lunch**

16:30–17:00 **Coffee and cakes**

17:00–17:25 **Jolanta Misiewicz (Warszawa)**  
Symmetric weakly stable random vector is pseudo-isotropic.

17:30–17:55 **Marie Choda (Osaka Kyoiku)**  
Positive definite matrices arising from unitaries.

18:00–18:25 **Hiroshi Ando (Kyoto)**  
Lie Group-Lie Algebra Correspondences of Unitary Groups in Finite von Neumann Algebras.

18:30–18:55 **Jan Janas (Kraków)**  
Decay bounds of eigenfunctions of unbounded Jacobi matrices.

19:00–20:00 **Dinner**

20:00–21:00 **Baby Talk – Ken Dykema**  
On approximation of groups by permutations and operators by matrices.

**Thursday, July 15**

08:00–09:00 **Breakfast**

09:00–09:45 **Yasuyuki Kawahigashi (Tokyo)**  
 $N = 2$  superconformal field theory and operator algebras.

09:50–10:35 **Stanisław Woronowicz (Warszawa)**  
Schm idgen commutation relations and quantum  $ax + b$ -group.

10:35–11:10 **Coffee break**

11:10–11:50 **Joachim Zacharias (Nottingham)**  
On groups with the invariant translation approximation property.

11:55–12:25 **Adam Skalski (Lancaster & Łódź)**  
How noncommutative is noncommutative topological entropy?

12:30–13:00 **Hun Hee Lee (Chungbuk)**  
Hypercontractivity on the  $q$ -Araki-Woods algebras.

13:00–14:00 **Lunch**

16:30–17:00 **Coffee and cakes**

19:00 **Barbecue**

**Friday, July 16**

08:00–09:00 **Breakfast**

09:00–09:45 **Karol Życzkowski (Kraków)**  
Graph random quantum states and Fuss-Catalan distribution.

09:50–10:35 **Luigi Accardi (Roma)**  
Nonlinear extensions of the Weyl relations.

10:35–11:10 **Coffee break**

11:10–11:50 **Viacheslav Belavkin (Nottingham)**  
A Banach Algebra Approach to Noncommutative Integration.

11:55–12:25 **Seung-Hyeok Kye (Seoul)**  
Facial structures of separable and PPT states.

12:30–13:00 **Paweł Kasprzak (Copenhagen)**  
Quantum Homogeneous Spaces.

13:00–14:00 **Lunch**

16:00–16:30 **Poster session**

16:30–17:00 **Coffee and cakes**

17:00–17:25 **Wilhelm von Waldenfels (Heidelberg)**  
The Singular Coupling Limit for a Simple Pure Number Process.

17:30–17:55 **PK. Das (Kolkata)**  
Weighted Energy Control of Quantum Mechanical System.

18:00–18:25 **Dorota Kępa (Lublin)**  
Euclidean Gibbs States of Quantum Systems on Graphs.

18:30–18:55 **Rachid El Harti (Settat)**  
Stability results for  $C^*$ -unitarisable groups.

19:00–20:00 **Dinner**

20:00–21:00 **Problem session**

**Saturday, July 17**

08:00–09:00 **Breakfast**

09:00–09:45 **Romuald Lenczewski (Wrocław)**  
Matricial freeness and random pseudomatrices.

09:50–10:35 **Uwe Franz (Besançon)**  
On square roots of the Haar state of a compact quantum group.

10:35–11:00 **Coffee break**

11:00–11:40 **Mihai Popa (Negev & IMAR)**  
Non-commutative functions in operator-valued non-commutative probability.

11:45–12:15 **Nobuhiro Asai (Aichi)**  
The Construction of Various Non-Gaussian Probability Measures on  $\mathbb{C}$ .

12:15–12:20 **Closing**

12:30 **Lunch**