



International Conference on Combinatorics and Physics

(Karol A. Penson's 71'-Fest)

Polish Academy of Sciences – Scientific Center in Paris
74 rue Lauriston, F 75116 Paris
11-12 January 2018

PROGRAMME

Thursday 11 January 2018

9h30 – 10h00 : Registration

I. Session – Chairman : G. H. E. DUCHAMP (Paris XIII)

10h00 : Welcome Address, M. FORYCKI, Director of the Scientific Center

10h10 – 10h50 : J. KLAUDER (Univ. Florida, USA) : *Operator Ordering and Quantum Physics*

10h50 – 11h30 : R. KERNER (Paris VI) : *Ternary and Cubic Algebras with Applications*

11h30 – 12h00 : Coffee Break

II. Session – Chairman : A. HORZELA (PAN, Cracow)

12h00 – 12h30 : M. BOZEJKO (PAN, Wroclaw) : *Introduction to Conditionally Free Probability with some Applications*

12h30 – 13h00 : K. ZYCZKOWSKI (Univ. Jagiell., Cracow) : *Towards Quantum Combinatorics : Searching for 36 Entangled Officers of Euler*

13h00 – 13h30 : N. BEHR (ENS/Paris VI/Paris VII) : *Combinatorial Conversion and Disassociator for Stochastic Rewriting Systems*

13h30 – 15h00 : Lunch

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III. Session – Chairman : R. KERNER (Paris VI)

15h30 – 16h00 : J. M. MAILLARD (Paris VI) : *Modular Forms, Schwarzian Conditions and Symmetries of Differential Equations in Physics*

16h00 – 16h30 : M. NOWAK (Univ. Jagiell., Cracow) : *Extreme Values versus Extreme Random Matrices*

16h30 – 17h00 : G. DATTOLI (ENEA, Roma) : *Fractional Derivatives and Ordering Problems*

17h00 – 17h30 : Coffee Break

IV. Session- Chairman : G. DATTOLI (ENEA, Roma)

17h30 – 18h00 : K. GORSKA (PAN, Cracow) : *Coherent States and Lévy Stable Distributions*

18h00 – 18h30 : A. HORZELA (PAN, Cracow) : *The Group of Five Story : Normal Order, Combinatorial Physics, and Fractional Calculus – what links these subjects ?*

19h00 – 19h50 : at the Conference Center

Piano Recital by Etsuko HIROSE

Programme : F. Chopin, F. Liszt, S. M. Lyapunov,
L. v. Beethoven/F. Liszt, R. Wagner/K. A. Penson,
R. Strauss/K. A. Penson

20h00 : Conference Dinner, at the Conference Center.

Friday, 12 January 2018

I. Session – Chairman : M. BOZEJKO (PAN, Wroclaw)

10h00 – 10h30 : V. HOANG NGOC MINH (Paris XIII, Lille II): *Multivariable Exponential Transform and Application to Regularization of Divergent Series*

10h30 – 11h00 : J. STOYANOV (Newcastle, UK) : *Moment (in)determinacy of Probability Distributions*

11h00 – 11h30 : A. VOURDAS (Bradford, UK) : *Renormalization of Total Sets of States into Generalized Bases with a Resolution of Unity : a Cooperative Game Theory Approach*

11h30 – 12h00 : Coffee Break

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II. Session- Chairman : A. VOURDAS (Bradford, UK)

12h00 – 12h30 : Ch. KRATTENTHALER (Univ. Vienna) : *A Factorisation Theorem for the Number of Rhombus Tilings of Hexagon with Triangular Holes*

12h30 – 13h00 : C. BANDERIER (Paris XIII): *Analytic Combinatorics and Combinatorial Physics*

13h00 – 13h30 : W. MLOTKOWSKI (Univ. Wroclaw) : *Generalized Bell Numbers*

13h30 – 14h00 : G. KOSHEVOY (CEMI RAN, Poncelet Lab., Moscow): *Geometric Crystals and Quantum Toda Lattices*

14h15 : Closing Remarks + Lunch

