

IMPA, Rio de Janeiro, Brazil  
August 24-28, 2015

2<sup>nd</sup> Workshop on  
**Combinatorics,  
Number Theory  
& Dynamical Systems**

We hereby certify that, **Albert Meads Fisher**, Instituto de Matemática e Estatística, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“Fractal-like integer sets coming from dynamics”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Alejandro Maass**, **Universidad de Chile**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“Variations on Recurrence”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Ali Messaoudi**, Universidade Estadual Paulista - São José do Rio Preto, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“Dynamics of stochastic adding machines”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Anne Bertrand**, CEPII, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: “**Boyle and Handelman conjecture, primitive matrices on  $\mathbb{N}$  and Perron numbers**”

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Benjamin Weiss**, Hebrew University In Jerusalem, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: “**Mixing properties of non-singular actions**”

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Fabricio Siqueira Benevides**, Universidade Federal do Ceará, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: “**Graph convexities and maximum infection time**”

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Francesco Cellarosi**, **Queens University**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“Supersymmetric Quantum Mechanics, Exponential Sums, and Homogeneous Dynamics”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Harald Helfgott**, Institut Mathématique de Jussieu, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: “**Soficity, recurrence and short cycles of exponential maps**”

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Jean-Marc Deshouillers**, Institut Polytechnique de Bordeaux, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: “**Automatic questions concerning the representation of  $n!$  in base  $b$** ”

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Joel Rivat, Universite Aix-Marseille**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“Digital properties of prime numbers”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Mariusz Lemanczyk**, Nicolaus Copernicus University, Torun, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: “**Automorphisms with quasi-discrete spectrum, multiplicative functions and average orthogonality along short intervals**”

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Michael Boshernitzan**, Rice University, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: “**Scales of functions and applications in ergodic theory and number theory**”

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Michael Drmota**, **Vienna University of Technology**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: “**Distribution Properties of Subsequences of Automatic Sequences**”

Rio de Janeiro, August 28, 2015.



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We hereby certify that, ***Paulo Ribenboim***, **Queens University**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“Ultrametric spaces with applications”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Ramon Moreira Nunes, Paris XI - Orsay**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“The distribution of squarefree numbers in arithmetic progressions”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Sascha Troscheit, University of St Andrews**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“A localised measurement of complexity for self-similar attractors”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Sebastian Donoso**, **Universidad de Chile - Matematica**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“A pointwise cubic average for two commuting transformations”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Sebastien Ferenczi**, Institut de Mathématiques de Luminy - CNRS, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: “**Examples of interval exchanges satisfying Veech and Sarnak**”

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Tamar Ziegler**, Hebrew University In Jerusalem, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“Concatenations of ergodic and combinatorial uniformity norms”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Vincent Delecroix, CNRS**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“The bottom of the Lagrange spectrum of translation surfaces”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Yann Bugeaud**, **Université de Strasbourg**, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“Around the Littlewood conjecture”**

Rio de Janeiro, August 28, 2015.



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We hereby certify that, **Yoshiharu Kohayakawa**, Instituto de Matemática e Estatística, participated in the 2<sup>nd</sup> Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 24 to 28, 2015 and presented the following work: **“The number of Bh-sets of a given cardinality”**

Rio de Janeiro, August 28, 2015.



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