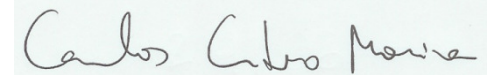


Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Albert Meads Fisher**, Instituto de Matemática e Estatística, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**A proof of Moeckel's theorem on continued fractions**”

Rio de Janeiro, August 23, 2013.



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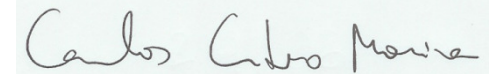
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Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Alex Eskin, University of Chicago**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**The $SL(2, \mathbb{R})$ action on Moduli space**”

Rio de Janeiro, August 23, 2013.



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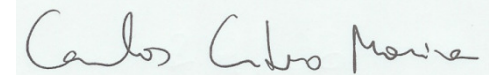
IMPA, Rio de Janeiro, Brazil
August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

Workshop on Combinatorics, Number Theory & Dynamical Systems

We hereby certify that, **Ali Messaoudi**, **Universidade Estadual Paulista - São José do Rio Preto**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**Adding Machines and Julia sets**”

Rio de Janeiro, August 23, 2013.



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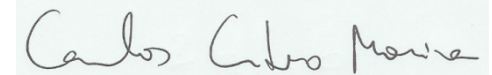
An Activity of



Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Arek Goetz, San Francisco State University**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: **“Combinatorial and integer properties of two dimensional piecewise rotations”**

Rio de Janeiro, August 23, 2013.



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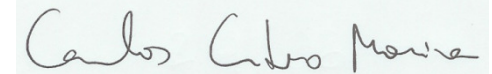
IMPA, Rio de Janeiro, Brazil
August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Artur Avila**, Univ. Pierre et Marie Curie, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**The billiard on the regular polygon**”

Rio de Janeiro, August 23, 2013.



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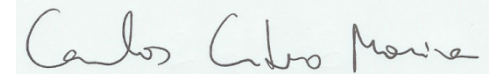
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Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Barak Weiss, Tel Aviv University**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**Badly approximable vectors on fractals**”

Rio de Janeiro, August 23, 2013.



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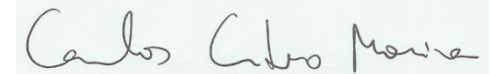
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Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Boris Adamczewski**, **CNRS**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**A problem about Mahler functions**”

Rio de Janeiro, August 23, 2013.



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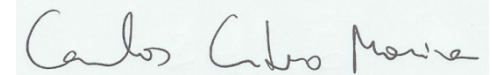
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Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Elon Lindenstrauss**, **Hebrew University In Jerusalem**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**An effective proof of the Oppenheim Conjecture**”

Rio de Janeiro, August 23, 2013.



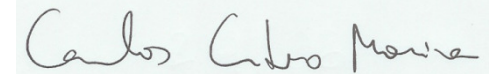
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Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Harald Helfgott**, **École Normale Supérieure de Paris**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**The ternary Goldbach conjecture**”

Rio de Janeiro, August 23, 2013.



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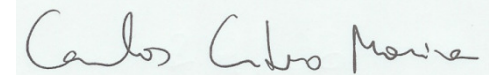
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Workshop on
**Combinatorics,
Number Theory
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We hereby certify that, **János Pintz, Renyi Institute of Mathematics**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**Arbitrarily long arithmetic progressions of generalized twin primes**”

Rio de Janeiro, August 23, 2013.



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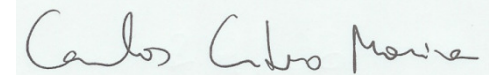
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August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Julien Cassaigne**, Institut de Mathématiques de Luminy - CNRS, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**Which Arnoux-Rauzy words are 2-balanced?**”

Rio de Janeiro, August 23, 2013.



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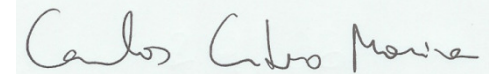
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Workshop on
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Number Theory
& Dynamical Systems**

We hereby certify that, **Máté Wierdl**, **The University of Memphis**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**Random differences in arithmetic progressions**”

Rio de Janeiro, August 23, 2013.



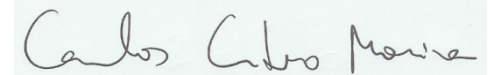
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Workshop on
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We hereby certify that, **Miguel Walsh, Universidad de Buenos Aires**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**Ill-distributed sets and discrete algebraic structure**”

Rio de Janeiro, August 23, 2013.



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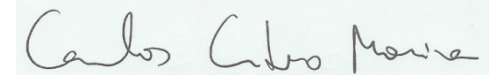
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Semester on Dynamics Beyond Uniform Hyperbolicity

Workshop on
**Combinatorics,
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We hereby certify that, ***Nilson da Costa Bernardes Junior***, Universidade Federal do Rio de Janeiro, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**Generic Dynamics of the Cantor Space**”

Rio de Janeiro, August 23, 2013.



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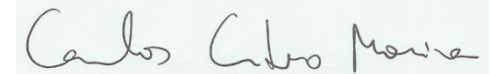
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August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

Workshop on
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We hereby certify that, **Pierre Arnoux**, Institut de Mathématiques de Luminy - CNRS, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**On Rauzy gasket**”

Rio de Janeiro, August 23, 2013.



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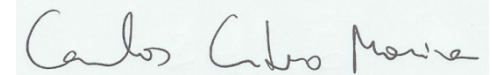
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August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

Workshop on
**Combinatorics,
Number Theory
& Dynamical Systems**

We hereby certify that, **Sebastien Ferenczi**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**A self-dual induction for interval exchange transformations**”

Rio de Janeiro, August 23, 2013.



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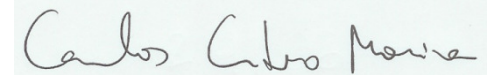
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Workshop on
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Number Theory
& Dynamical Systems**

We hereby certify that, **Vitaly Bergelson**, **Ohio State University**, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**Some recent results and open problems in Ergodic Ramsey Theory**”

Rio de Janeiro, August 23, 2013.



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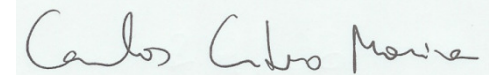
IMPA, Rio de Janeiro, Brazil
August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

Workshop on
**Combinatorics,
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& Dynamical Systems**

We hereby certify that, *Yoshiharu Kohayakawa*, Instituto de Matemática e Estatística, participated in the Workshop on Combinatorics, Number Theory and Dynamical Systems, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA – Rio de Janeiro, from August 19 to 23, 2013 and presented the following work: “**Extremal problems for random discrete structures**”

Rio de Janeiro, August 23, 2013.



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