

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, **Alan Gerardo Reyes Figueroa**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Alex Zamudio**, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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 Golmakani**, **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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, ***Alma Maria Armijo Averill***, **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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Ana Maria Cruz Pacheco**, **Universidad Nacional de Colombia**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Anderson Reis da Cruz**, **Universidade Federal da Bahia**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Andrêssa Lima de Souza**, **Universidade Federal da Bahia**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Carlos Bocker Neto**, Universidade Federal da Paraíba - João Pessoa, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Carlos Gustavo Tamm de Araujo Moreira**, Instituto de **Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Carlos Matheus Silva Santos**, Collège de France, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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

We hereby certify that, **Christian Mauduit**, **Universite Aix-Marseille**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, ***Cristina Lizana Araneda***, **Universidad de Los Andes- Venezuela**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, ***Daniel Ricardo Blanquicett Tordecilla***, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, ***Davi dos Santos Lima***, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, ***Fernando Antonio de Araujo Carneiro***, **Universidade do Estado 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Frank Alfonso Trujillo Amézquita**, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Gabriela Alexandra Estevez Jacinto**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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

We hereby certify that, **Gerardo Honorato, Universidad de Valparaíso**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, ***Giovane Ferreira Silva***, **Universidade Federal de Alagoas**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Guilherme Henrique de Paula Reis**, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



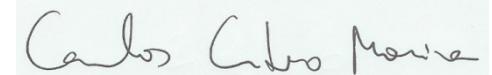
IMPA, Rio de Janeiro, Brazil
August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

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

We hereby certify that, **Isabel Leal, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Jailson Calado da Silva**, Universidade Federal do Maranhão, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Jesús Alejandro Aponte González**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **João Pedro Gonçalves Ramos**, Colégio Pedro II, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, *jorge luis crisostomo parejas*, **Inst. de Ciências Matemáticas e de Computação**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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

We hereby certify that, **José Eduardo Milton de Santana, Sem vínculo**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Jose Manuel Chauta**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **José Santana Campos Costa**, Inst. de Ciências Matemáticas e de **Computação**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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

We hereby certify that, **Juan David Rojas Gacha**, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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

We hereby certify that, **Leandro Aguiar Fernandes**, **Universidade Federal Rural 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Lucas Henrique Backes**, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Luis Antonio Gómez Ardila**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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

We hereby certify that, *manfred denker*, **Pennsylvania 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



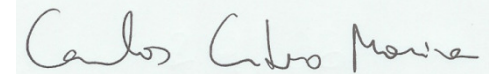
IMPA, Rio de Janeiro, Brazil
August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

Workshop on Combinatorics, Number Theory & Dynamical Systems

We hereby certify that, **Marcelo M. Viana**, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Marcus Vinícius da Conceição Morro**, Universidade Federal da **Bahia**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Marlon Cesar Santos Oliveira**, **Universidade Federal de Alagoas**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



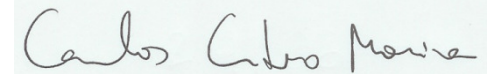
IMPA, Rio de Janeiro, Brazil
August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

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

We hereby certify that, **Marlon Michael López Flores**, **Universidade do Estado 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, ***Paulo Varandas***, **Universidade Federal da Bahia**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Rafael Afonso Barbosa**, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Roberto Sant'Anna Sacramento**, **Universidade Federal da Bahia**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Rodrigo Ribeiro Lopes**, Inst. Ciên. Matemática e Comp. de São Carlos, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Samuel Senti**, **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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Sergio Augusto Romãna Ibarra**, IMPA - Pós-Doutorando, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Sergio Iker Martínez Juárez**, Instituto de Matemática 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Victor Andres Vargas Cubides**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Wagner Ranter Gouveia da Silva**, Universidade Federal de **Alagoas**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Wállice Mangueira de Sousa**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Wellington da Silva Cordeiro**, **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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



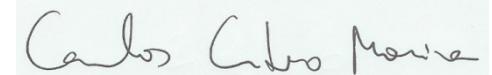
IMPA, Rio de Janeiro, Brazil
August 19-23, 2013

Semester on Dynamics Beyond Uniform Hyperbolicity

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

We hereby certify that, **Wescley Bonomo, Ufes/Ceunes**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of



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, **Yuri Gomes Lima, Weizmann Institute of Science**, 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.

Rio de Janeiro, August 23, 2013.



Carlos Gustavo T. de A. Moreira
Organizing Committee

CERTIFICATE



Support



An Activity of

