



# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Alan Gerardo Reyes Figueroa**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

Rio de Janeiro, August 07, 2009.

A blue ink signature of the name "Leonardo Macarini".

Leonardo Macarini  
Organizing Committee

August 03<sup>rd</sup> to 07<sup>th</sup>, 2009  
IMPA, Rio de Janeiro, Brazil

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Alejandro Cabrera**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Alexandre Alvarenga Rocha**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Anete Soares Cavalcanti**, *Universidade Federal Rural de Pernambuco*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Carlos Pinheiro**, *Universidade Federal Rural do Rio de Janeiro*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Carlos Tomei**, *Pontifícia Universidade Católica do Rio de Janeiro*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Cesar J. Niche**, *Universidade Federal Rural do Rio de Janeiro*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Clayton de Lima**, *Universidade Federal Rural do Rio de Janeiro*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Clodoaldo Grotta Ragazzo, USP Instituto de Matemática e Estatística**, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Cristian Ortiz Gonzalez**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Cristina Beatriz Manzaneda Herrera**, *Universidade Católica do Norte - Antofagasta*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Cristina Levina Marques**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Daniele Sepe**, *University of Edinburgh*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Eduardo Garibaldi**, *UNICAMP - IMECC*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Elismar R. Oliveira**, *Universidade Federal do Rio Grande do Sul*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Fernando Antonio de Araujo Carneiro**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Fernando Figueiredo de Oliveira Filho**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Geraldo César Gonçalves Ferreira**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Gersonilo Oliveira da Silva**, *Universidade Federal de Pernambuco*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Henrique Bursztyn**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Ivan Aguilar**, *Sociedad Matemática Peruana*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Jair Koiller**, *Fundação Getúlio Vargas*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **James Daniel Trevarton Jane**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Javier Solano**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Jimmy Santamaria Torrez**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Jorge Erick López Velazquez**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **José Antônio Gonçalves Miranda**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **José Barbosa Gomes**, *Universidade Federal de Juiz de Fora*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **José Régis Azevedo Varão Filho**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Juan Carlos Cordero Ceballos**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Juan Carlos Marrero González**, *Universidad la Laguna*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Justino Muniz Júnior**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Katrin Gelfert**, *Max Planck Institute for The Physics of Complex Systems Dresden*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Leonardo Magalhães Macarini**, *Universidade Federal do Rio de Janeiro*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Luiz Carlos Garcia de Andrade**, *Universidade do Estado do Rio de Janeiro*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Manuela Moura Dantas**, *Universidade Federal do Rio de Janeiro*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Marcelo Ribeiro de Resende Alves**, *USP Instituto de Matemática e Estatística*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Marcelo Viana**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Marco Mazzucchelli**, *Dipartimento di Matematica di Pisa*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Maria Edith Padrón Fernández**, *Universidad la Laguna*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Mário Jorge Dias Carneiro**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Mario Rodolfo Roldán Daquilema**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Martim Lourenço de Oliveira Vieira**, *Centro Brasileiro de Pesquisas Físicas*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Michel Molina Del Sol**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Oliver Butterley**, *Imperial College London*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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Leonardo Macarini  
Organizing Committee

August 03<sup>rd</sup> to 07<sup>th</sup>, 2009  
IMPA, Rio de Janeiro, Brazil

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Pablo Castañeda Rivera**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

Rio de Janeiro, August 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Pablo Suárez Serrato**, *Centro de Investigacion en Matematicas*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Paul Schweitzer**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Paula Balseiro**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Rafael Oswaldo Ruggiero Rodriguez**, *Pontifícia Universidade Católica do Rio de Janeiro*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Reginaldo Braz Batista**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Ricardo**, *Centro Brasileiro de Pesquisas Físicas*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Rogério Lourenço Fernandez**, *Univ. of Dortmund*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Romero Barbieri Solha**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Samuel Barbosa Feitosa**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Sebastião Martins Xavier**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Sheila Sandon**, *Instituto Superior Técnico- Universidade Técnica de Lisboa*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Sílvia Anjos**, *Instituto Superior Técnico- Universidade Técnica de Lisboa*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Sonia Pinto de Carvalho**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Thiago Fontes Santos**, *Universidade Federal de Minas Gerais*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Vanessa Ribeiro Ramos**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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# Workshop on Conservative Dynamics and Symplectic Geometry

We hereby certify that, **Wanderson Costa e Silva**, *Instituto de Matematica Pura e Aplicada*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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We hereby certify that, **Will Merry**, *University of Cambridge*, participated in the “Workshop on Conservative Dynamics and Symplectic Geometry”, held at Instituto de Matemática Pura e Aplicada - IMPA, RJ, from August 03 to 07, 2009.

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