

# Workshop on Low Dimensional Dynamics

We hereby certify that, **Anderson Reis da Cruz, Universidade Federal da Bahia**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

Rio de Janeiro, November 22, 2013.



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We hereby certify that, **André Ribeiro de Resende Alves**, Inst. de Matemática, Est. e **Ciência da Computação**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

Rio de Janeiro, November 22, 2013.



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We hereby certify that, **Andrêssa Lima de Souza**, **Universidade Federal da Bahia**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

Rio de Janeiro, November 22, 2013.



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We hereby certify that, **Andrew Scott Hammerlindl**, **University of Sydney**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Belmiro Galo da Silva**, Instituto de Matemática e Estatística, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Brunpo Brogni Uggioni, Universidade Federal do Rio Grande do Sul**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Bulmer Mejía García**, **Universidade Federal de Minas Gerais**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Carlos Alberto Salazar Mercado, Universidade Federal de Minas Gerais**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Carolina Puppo, Universidade Federal Fluminense**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Christian Bonatti**, Institut de Mathematiques de Bourgogne - **Dijon**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Cleber Fernando Colle**, **IMECC**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Daniel Ricardo Blanquicett Tordecilla**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Danilo Tonini Ferreira**, Instituto de Matemática e Estatística, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Davi dos Santos Lima**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Erica Clay, Tufts University**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Ermerson Rocha Araujo**, **Universidade Federal do Maranhão**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Fernando Antonio de Araujo Carneiro**, **Universidade do Estado do Rio de Janeiro**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Fernando Nera Lenarduzzi**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Gabriela Alexandra Estevez Jacinto**, Instituto de Matemática e Estatística, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Giovane Ferreira, Universidade Federal de Alagoas**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Jacob Palis**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Jailson Calado da Silva**, **Universidade Federal do Maranhão**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Jair Koiller, Fundação Getúlio Vargas**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Jorge Erick López Velázquez**, **IMPA**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Jorge Luis Crisostomo Parejas**, Inst. de Ciências Matemáticas e de Computação, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Jorge Sotomayor**, Instituto de Matemática e Estatística, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **José Eduardo Milton de Santana, Uae University**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Jose Manuel Chauta**, Instituto de Matemática e Estatística, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **José Santana Campos Costa, Inst. de Ciências Matemáticas e de Computação**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Juan David Rojas Gacha**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Katrin Gelfert**, **Universidade Federal do Rio de Janeiro**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Lorenzo J. Diaz**, Pontifícia Universidade Católica do Rio de Janeiro, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Lucas Henrique Backes**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Luciana Silva Salgado**, **Universidade Federal da Bahia**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Luis Hernández Corbato**, **IMPA**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Luiz Gustavo Perona Araújo**, **Universidade Federal de Minas Gerais**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Marcelo M. Viana**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Marcio Ricardo Alves Gouveia, Universidade Estadual Paulista - São José do Rio Preto**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Marcus Vinícius da Conceição Morro**, **Universidade Federal da Bahia**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Mario Roldán**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Marlon Cesar Santos Oliveira**, **Universidade Federal de Alagoas**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Nicolas Gourmelon, Université de Bordeaux**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Nikolaos Karaliolios**, **Université Paris VII - Jussieu**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Nivaldo Costa Muniz**, **Universidade Federal do Maranhão**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Pablo Gutiérrez Barrientos**, Pontifícia Universidade Católica do Rio de Janeiro, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Rafael Alvarez Bilbao**, **Universidade Federal de Alagoas**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Rafael Labarca**, **Universidad de Santiago de Chile**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Roberto Sant'Anna Sacramento**, **Universidade Federal da Bahia**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Rodrigo Ribeiro Lopes**, Inst. Ciên. Matemática e Comp. de São **Carlos**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Samuel Senti**, **Universidade Federal do Rio de Janeiro**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Sergio Augusto Romaña Ibarra**, **IMPA**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Simon Lloyd**, **Inst. de Matemática, Est. e Ciência da Computação**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Sylvain Crovisier, Paris XI - Orsay**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Vanderlei Minori Horita, Universidade Estadual Paulista - São José do Rio Preto**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Victor Andres Vargas Cubides**, Instituto de Matemática e Estatística, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Wagner Ranter Gouveia da Silva**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Wellington de Melo**, Instituto de Matematica Pura e Aplicada, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Wescley Bonomo**, **Universidade Federal da Bahia**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Yiwei Zhang, PUC de Chile - Santiago**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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We hereby certify that, **Yuri ki, IMPA**, participated in the Workshop on Low-Dimensional Dynamics, held at IMPA - Rio de Janeiro, from November 17 to 22, 2013.

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