

IMPA-Bath Workshop in Mathematics

IMPA, January 23-27, 2017



CERTIFICATE

We hereby certify that, ***Ailin Ruiz de Zarate Fabregas***, **Universidade Federal do Paraná**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

Rio de Janeiro, January 30th, 2017

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We hereby certify that, **Alberto Mizrahy Campos**, **Universidade Federal de Minas Gerais**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Alexandre Stauffer, University of Bath**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Alexei Mailybaev**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **André Nachbin**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Anna Ben-Hamou**, **Université ParisVII -Denis Diderot**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Apala Majumdar, University of Bath**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Augusto Quadros Teixeira**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Carlos Antonio Galeano Rios**, **University of Bath**, participated in the IMPA–Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Cassio Machiaveli Oishi**, **Universidade Estadual Paulista - Presidente Prudente**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Chris Guiver, University of Bath**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Ciro Sobrinho Campolina Martins**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Clarena Patricia Arrieta Arrieta**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Claudio Landim**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Clément Erignoux**, **École Polytechnique**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Clodoaldo Grotta Ragazzo**, Instituto de Matemática e Estatística, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Daniel Ahlberg**, **IMPA - Pós-Doutorando**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, ***Daniel Gregorio Alfaro Vigo***, **Universidade Federal do Rio de Janeiro**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, ***Daniel Ricardo Blanquicett Tordecilla***, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **David Andrade**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Felipe Bomfim Pinheiro de Meneses**, **Universidade Federal de Sergipe**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Francisco de Melo Viríssimo**, **University of Bath**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Gerardo Barrera Vargas**, **Centro de Investigacion en Matematicas**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Hubert Lacoïn**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Jaime Utria Valdes, IMECC**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Jefferson Elbert Simões**, **Universidade Federal do Estado do Rio de Janeiro**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Jessica Ortiz, Universite Nacional de Asuncion**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Jonathan Evans, University of Bath**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Jorge P. Zubelli**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Jorge Sotomayor**, Instituto de Matemática e Estatística, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Jose Alberto Cuminato**, Inst. de Ciências Matemáticas e de Computação, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **José Ezequiel Soto Sánchez**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Julio Pedro Ripoll Filho**, Pontifícia Universidade Católica do Rio Grande do Sul, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Leandro Chiarini Medeiros**, **Universidade de Brasilia**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Luciana Menezes Vasconcelos**, **Universidade Federal de Sergipe**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Luiz Ricardo Bertoldi de Oliveira**, **Universidade Vale do Rio dos Sinos**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Marcel Ortgiese, University of Bath**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Marcelo Velloso Flamarion Vasconcellos**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, ***Milton David Jara Valenzuela***, **Instituto Nacional de Matemática Pura e Aplicada**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Paul Milewski, University of Bath**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Pedro Barbisan Widniczck**, **Universidade Federal do Rio Grande do Sul**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, ***Pedro Vytor Alves do Carmo Pereira***, **Centro Universitário de Patos de Minas**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Robert Morris**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Roberto Carlos Huaranca Ampa**, **Universidad Mayor de San Andrés**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Roberto Imbuzeiro Moraes Felinto de Oliveira**, Instituto Nacional de Matemática Pura e Aplicada, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Roberto Ribeiro Santos Junior**, **Universidade Federal do Paraná**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Rodrigo Botelho Ribeiro**, **Universidade Federal de Minas Gerais**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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IMPA-Bath Workshop in Mathematics

IMPA, January 23-27, 2017



CERTIFICATE

We hereby certify that, **Rodrigo Marinho de Souza**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, ***Simon Richard Griffiths***, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Susie Douglas, University of Bath**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Thomas Érico Jacobus**, **Universidade Federal do Rio Grande do Sul**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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We hereby certify that, **Tim Rogers, University of Bath**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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CERTIFICATE

We hereby certify that, **Yuan Jin Yun, Universidade Federal do Paraná**, participated in the IMPA-Bath Workshop in Mathematics, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from January 23rd to 27th, 2017.

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