



IMPA, Rio de Janeiro  
May 11-15, 2015

Thematic Program on  
**Algebraic Geometry**

# Tropical Geometry in the Tropics

We hereby certify that, **Ana Margarida Mascarenhas Melo**, Univ. de Coimbra, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: **“Regular matroids: Torelli theorem and moduli space”**

Rio de Janeiro, May 15, 2015.

Oliver Lorscheid

Organizing Committee



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# Tropical Geometry in the Tropics

We hereby certify that, ***Diane Maclagan***, **University of Warwick**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: **“Tropical ideals, varieties, and schemes”**

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# Tropical Geometry in the Tropics

We hereby certify that, **Eric Katz, University of Waterloo**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: **“Hodge theory in combinatorics”**

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# Tropical Geometry in the Tropics

We hereby certify that, **Ilia Itenberg**, Institut de Mathematiques de Jussieu, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: “**Enumerative aspects of tropical geometry**”

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# Tropical Geometry in the Tropics

We hereby certify that, **Jean-Jacques Risler, Université Paris VII - Jussieu**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: **“Curvature of Real Algebraic Sets”**

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# Tropical Geometry in the Tropics

We hereby certify that, **Jeffrey Giansiracusa, Johns Hopkins University**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: “**Bend relations, valuations, and universal tropicalization**”

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# Tropical Geometry in the Tropics

We hereby certify that, **Josephine Yu, Georgia Institute of Technology**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: **“Product-Mix Auction and Tropical Geometry”**

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# Tropical Geometry in the Tropics

We hereby certify that, **Kristin Shaw, Technische Universität Berlin**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: **“Tropical Surfaces”**

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# Tropical Geometry in the Tropics

We hereby certify that, **Lothar Goettsche**, **International Center for Theoretical and Physics**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: “**Refined curve counting and tropical geometry**”

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# Tropical Geometry in the Tropics

We hereby certify that, **Louis Rowen, Bar-Ilan University**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: **“Towards Supertropical Representation Theory”**

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# Tropical Geometry in the Tropics

We hereby certify that, **Lucia Lopez de Medrano Alvarez**, Instituto de Matematicas, Univ. **Nac. Autonoma de Mexico**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work:  
**“Decomposition of Tropical Skeletons”**

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# Tropical Geometry in the Tropics

We hereby certify that, **Matt Baker**, **Georgia Institute of Technology**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: “**Specialization of divisors from algebraic to tropical curves**”

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A handwritten signature in black ink, appearing to read "O. Lorscheid", is written on a light-colored rectangular background.

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# Tropical Geometry in the Tropics

We hereby certify that, **Sam Payne, Yale University**, participated in the Tropical geometry in the tropics - Thematic Program on Algebraic Geometry, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from May 11 to 15, 2015 and presented the following work: “**Algebraic curves, tropical geometry, and moduli**”

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