



IMPA, Rio de Janeiro
May 11-15, 2015

Thematic Program on
Algebraic Geometry

Tropical Geometry in the Tropics

We hereby certify that, **Alberto Bellardini, Katholieke Universiteit Leuven**, 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.

An Activity of



Rio de Janeiro, May 15, 2015.

A handwritten signature in black ink on a light-colored background, which reads "O. Lorscheid".

Oliver Lorscheid

Organizing Committee

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The logo for CNPq (Conselho Nacional de Desenvolvimento Científico e Tecnológico) features a stylized, abstract graphic of a circle with a dot in the center, resembling an eye or a planet, with the text "CNPq" written to its right.

The logo for FAPERJ (Fundação de Amparo à Pesquisa do Estado do Rio de Janeiro) features a stylized, abstract graphic of a circle with a dot in the center, resembling an eye or a planet, with the text "FAPERJ" written to its right.





IMPA, Rio de Janeiro
May 11-15, 2015

Thematic Program on
Algebraic Geometry

Tropical Geometry in the Tropics

We hereby certify that, **Alberto Celotto**, **Scuola Internazionale Superiore Studi Avanzati - Trieste**, 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.

Rio de Janeiro, May 15, 2015.

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IMPA, Rio de Janeiro
May 11-15, 2015

Thematic Program on

Algebraic Geometry

Tropical Geometry in the Tropics

We hereby certify that, **Alberto López Martín, IMPA - Pós-Doutorando de Excelência**, 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.

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May 11-15, 2015

Thematic Program on

Algebraic Geometry

Tropical Geometry in the Tropics

We hereby certify that, **Alejandro Soto**, **Katholieke Universiteit Leuven**, 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.

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May 11-15, 2015

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Algebraic Geometry

Tropical Geometry in the Tropics

We hereby certify that, **Alex Massarenti**, **IMPA - Pós-Doutorando de Excelência**, 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.

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Algebraic Geometry

Tropical Geometry in the Tropics

We hereby certify that, **Alicia Dickenstein, Universidad de Buenos Aires**, 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.

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We hereby certify that, **Anastasios Vogiannou**, **University of Massachusetts Amherst**, 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.

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We hereby certify that, **Andrea Fanelli**, **Imperial College London**, 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.

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We hereby certify that, **Andrew Macpherson**, Institut Des Hautes Etudes Scientifiques, 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.

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We hereby certify that, **Andrey Lazarev, University of Lancaster**, 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.

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We hereby certify that, **Antoni Rangachev, Northeastern University, Boston, Usa**, 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.

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We hereby certify that, **Beatriz Graña Otero**, **Pontificia Universidad Javeriana**, 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.

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We hereby certify that, **Carolina Bhering de Araujo**, Instituto Nacional de Matemática Pura e Aplicada, 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.

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We hereby certify that, **Emilio Franco Gomez, IMECC**, 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.

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We hereby certify that, **Ethan Cotterill, Universidade Federal Fluminense**, 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.

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We hereby certify that, **Farbod Shokrieh, Cornell 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.

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We hereby certify that, **Felipe Rincón, Universidad de Los Andes-Colombia**, 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.

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We hereby certify that, **Filippo Viviani**, **Universita Degli Studi "roma Tre"**, 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.

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We hereby certify that, **Gary Kennedy, Ohio State 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.

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Tropical Geometry in the Tropics

We hereby certify that, **Giulio Codogni**, **Universita Degli Studi "roma Tre"**, 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.

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We hereby certify that, **Jacopo Vittorio Scalise**, **Scuola Internazionale Superiore Studi Avanzati - Trieste**, 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.

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We hereby certify that, **Jifeng Shen, 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.

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We hereby certify that, **Johannes Rau, Universität Des Saarlandes**, 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.

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Algebraic Geometry

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We hereby certify that, **Jorge Vitório Bacellar dos Santos Pereira**, Instituto Nacional de **Matemática Pura e Aplicada**, 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.

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We hereby certify that, **Lionel Lang, University of Geneva**, 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.

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We hereby certify that, **Maral Mostafazadehfard**, **Universidade Federal de Pernambuco**, 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.

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We hereby certify that, **Marcus André de Carvalho Torres**, Universidade Federal de **Itajubá**, 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.

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We hereby certify that, **Marta Panizzut**, **Katholieke Universiteit Leuven**, 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.

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We hereby certify that, **Nicolas Puignau**, Universidade Federal do Rio de Janeiro, 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.

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May 11-15, 2015

Thematic Program on
Algebraic Geometry

Tropical Geometry in the Tropics

We hereby certify that, **Oliver Lorscheid**, **IMPA - Pós-Doutorando de Excelência**, 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.

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Tropical Geometry in the Tropics

We hereby certify that, **Renzo Cavalieri, Colorado State 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.

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May 11-15, 2015

Thematic Program on
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Tropical Geometry in the Tropics

We hereby certify that, ***Rick Antonio Rischter***, Instituto Nacional de Matemática Pura e Aplicada, 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.

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Thematic Program on

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We hereby certify that, **Roberto Carlos Alvarenga da Silva Júnior**, Instituto Nacional de **Matemática Pura e Aplicada**, 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.

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May 11-15, 2015

Thematic Program on
Algebraic Geometry

Tropical Geometry in the Tropics

We hereby certify that, **Robin Guilbot, IMPA - Pós-Doutorando**, 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.

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May 11-15, 2015

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Tropical Geometry in the Tropics

We hereby certify that, **Roi Docampo Alvarez**, Consejo Superior de Investigaciones Cientificas, 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.

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We hereby certify that, **Sandor Kovacs**, **University of Washington**, 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.

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We hereby certify that, **Sandra Di Rocco, Royal 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.

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We hereby certify that, **Spencer Backman, Università di Roma - la Sapienza**, 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.

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We hereby certify that, **Trygve Johnsen, University of Tromsø**, 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.

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Algebraic Geometry

Tropical Geometry in the Tropics

We hereby certify that, **Ugo Bruzzo**, **Scuola Internazionale Superiore Studi Avanzati - Trieste**, 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.

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Tropical Geometry in the Tropics

We hereby certify that, **Valdir José Pereira Júnior**, Instituto Nacional de Matemática Pura e Aplicada, 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.

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Tropical Geometry in the Tropics

We hereby certify that, **Wállice Mangueira de Sousa**, Instituto Nacional de Matemática **Pura e Aplicada**, 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.

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We hereby certify that, **Ye Luo, Rice 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.

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We hereby certify that, **Zur Izhakian, University of Aberdeen**, 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.

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