

II ELGA

Latin American School of Algebraic
Geometry and Applications

Cabo Frio, Rio de Janeiro, Brazil
June 1-12, 2015



We hereby certify that, **Alex Massarenti**, **IMPA - Pós-Doutorando de Excelência**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Explicit log Fano structures on blow-ups of projective spaces”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Alicia Dickenstein**, **Universidad de Buenos Aires**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“From chemical reaction networks to Descartes' rule of signs”**.

Rio de Janeiro, June 12, 2015.

A handwritten signature in blue ink, which reads "Carolina B. Araujo".

Carolina Araujo
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We hereby certify that, **Amílcar Pacheco**, **Universidade Federal do Rio de Janeiro**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Explicit bound for a conjecture of lang on curves over function fields”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Ariel Molinuevo**, **Consejo Nacional de Investigaciones Cientificas y Tecnicas**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“The Kupka set and unfoldings”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Barbara Fantechi, Scuola Internazionale Superiore Studi Avanzati - Trieste**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Classical and virtual intersection theory”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Brion Michel, Université de Grenoble**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Minimal rational curves on group compactifications”**.

Rio de Janeiro, June 12, 2015.

A handwritten signature in blue ink, which appears to read "Carolina B. Araujo".

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We hereby certify that, **Burt Totaro**, **University of California**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**Algebraic cycles and birational geometry**”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Cesar Lozano Huerta, Harvard University**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Compactifying the space of smooth quadrics”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Colleen Robles, Texas A&M University**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Horizontal Schubert varieties”**.

Rio de Janeiro, June 12, 2015.

A handwritten signature in blue ink that reads "Carolina B. Araujo".

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We hereby certify that, **Damiano Testa**, **University of Warwick**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**K3 surfaces arising from arithmetic problems**”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **David Stapleton, State University of New York at Stony Brook**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Geometry of Tautological Bundles on Hilbert Schemes of Points”**.

Rio de Janeiro, June 12, 2015.

A handwritten signature in blue ink, reading "Carolina B. Araujo".

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We hereby certify that, **Diane Maclagan, University of Warwick**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Tropical Schemes”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Eduardo de Sequeira Esteves**, Instituto Nacional de Matemática Pura e Aplicada, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Limit linear series, a new perspective”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, ***Evgueni Tevelev***, **University of Massachusetts Amherst**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“The Craighero-Gattazzo surface is simply-connected”**.

Rio de Janeiro, June 12, 2015.

A handwritten signature in blue ink, which reads "Carolina A. Araujo".

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We hereby certify that, **Giancarlo Urzua, PUC de Chile - Santiago**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“On Chern slopes of simply connected surfaces in any characteristic”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Henrique N. Sá Earp, IMECC**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“The generalised Hoppe stability criterion on polycyclic varieties”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Israel Vainsencher, Universidade Federal de Minas Gerais**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work:
“Holomorphic foliations singular along a positive dimensional subscheme”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Jason Starr**, **State University of New York at Stony Brook**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Picard Groups of Spaces of Rational Curves in Fano Manifolds”**.

Rio de Janeiro, June 12, 2015.

A handwritten signature in blue ink, reading "Carolina B. Araujo".

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We hereby certify that, **Jérémy Blanc**, **Universitat Basel**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**Dynamical Degrees of Birational transformations of projective surfaces**”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Julie Rana, Marlboro College**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**On Stable Quintic Surfaces**”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, ***Kristian Ranestad, Oslo University***, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Power sum presentations of cubic forms, and generalizations”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Ljudmila Kamenova, State University of New York at Stony Brook**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“On Kobayashi's conjecture of K3 surfaces and hyperkahler manifolds-”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Maral Mostafazadehfard, Universidade Federal de Pernambuco**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work:
“Arithmetical rank and cohomological dimension of the determinantal ideals”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, ***Maria Isabel Herrero***, **Consejo Nacional de Investigaciones Cientificas y Tecnicas**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Tropicalization of singular varieties”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Mauricio Velasco**, **Universidad de Los Andes-Colombia**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work:
“Nonnegativity certificates on real algebraic curves”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Michela Artebani**, **Universidad de Concepción**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“About the semiample cone of the symmetric product of a curve”**.

Rio de Janeiro, June 12, 2015.

A handwritten signature in blue ink, which reads "Carolina Araujo".

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We hereby certify that, **Olivier Debarre**, **École Normale Supérieure de Paris**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**Curves of low degrees on Fano varieties**”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Paola Comparin**, **Universidad de Concepción**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**Dual families of Calabi-Yau hypersurfaces**”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Paul Hacking, University of Massachusetts Amherst**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**Theta functions for K3 surfaces**”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Pedro Hernandez Rizzo**, **Universidad de Antioquia**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**Stable limit linear series on singular curves**”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Rafael Lucas de Arruda, Instituto Nacional de Matemática Pura e Aplicada**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“On the space of conics through two points”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Ragni Piene, Oslo University**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Higher order self-dual toric varieties”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Robert Lazarsfeld, State University of New York at Stony Brook**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Equations defining projective varieties”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Robin Guilbot, IMPA - Pós-Doutorando**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“On the unification of toric mirror constructions”**.

Rio de Janeiro, June 12, 2015.

A handwritten signature in blue ink that reads "Carolina B. Araujo".

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We hereby certify that, **Rubí E. Rodriguez**, **Universidad de la Frontera**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**Abelian Varieties and Actions**”.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Sándor Kovacs**, **University of Washington**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Projectivity of the moduli space of stable log-varieties”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Severino Collier Coutinho, Universidade Federal do Rio de Janeiro**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“On the construction of minimal involutive varieties”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Seyed Hamid Hassanzadeh, Universidade Federal do Rio de Janeiro**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“On the Geometry of Syzygies of Birational Maps”**.

Rio de Janeiro, June 12, 2015.

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We hereby certify that, **Wenhao Ou, Université Joseph Fourier**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: **“Pluri-forms on singular rationally connected surfaces”**.

Rio de Janeiro, June 12, 2015.

A handwritten signature in blue ink, which reads "Carolina Araujo".

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We hereby certify that, **Xavier Gómez-Mont**, **Centro de Investigacion en Matematicas**, participated in the II Latin American School of Algebraic Geometry and Applications (II ELGA) - Thematic Program on Algebraic Geometry, held at Hotel La Plage, Cabo Frio, Rio de Janeiro, from June 1 to 12, 2015 and presented the following work: “**Geometric and Algebraic Jordan Block Structure in Vanishing Cohomology and in the Jacobian Algebra of an Isolated Singularity**”.

Rio de Janeiro, June 12, 2015.

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