

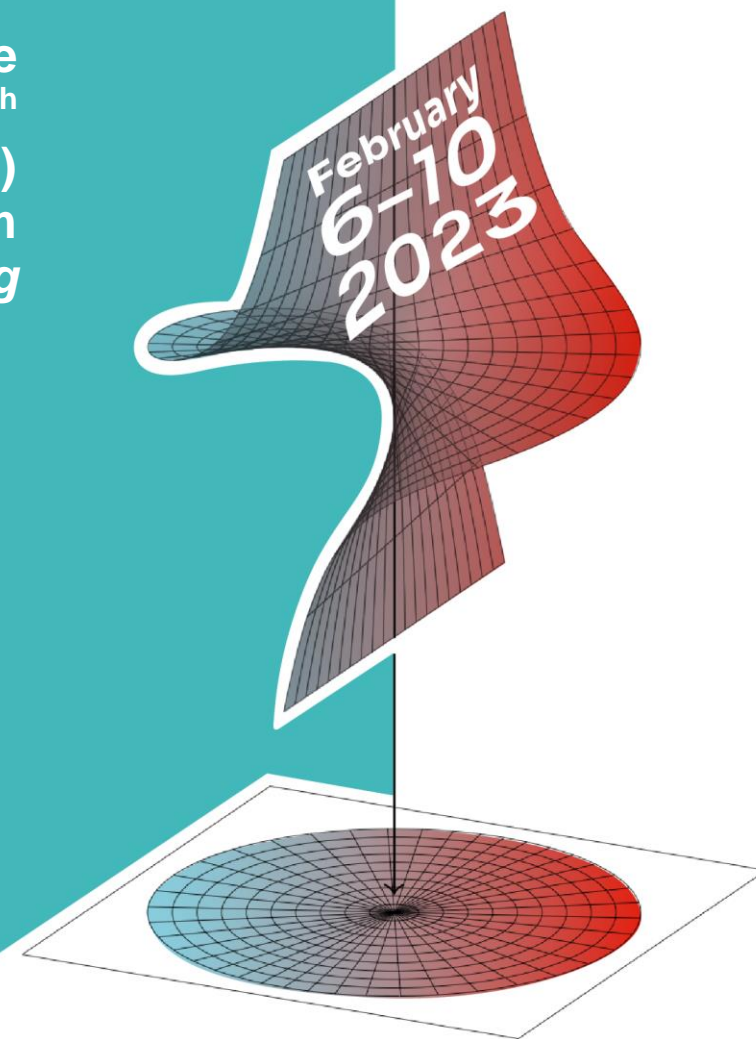
CERTIFICATE

We hereby certify that Ageu Barbosa Freire, Universidade do Estado do Rio de Janeiro (UERJ), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *A splitting criterion for uniform vector bundles*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Alan do Nascimento Muniz, Universidade Estadual de Campinas (UNICAMP), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Foliations on homogeneous spaces*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



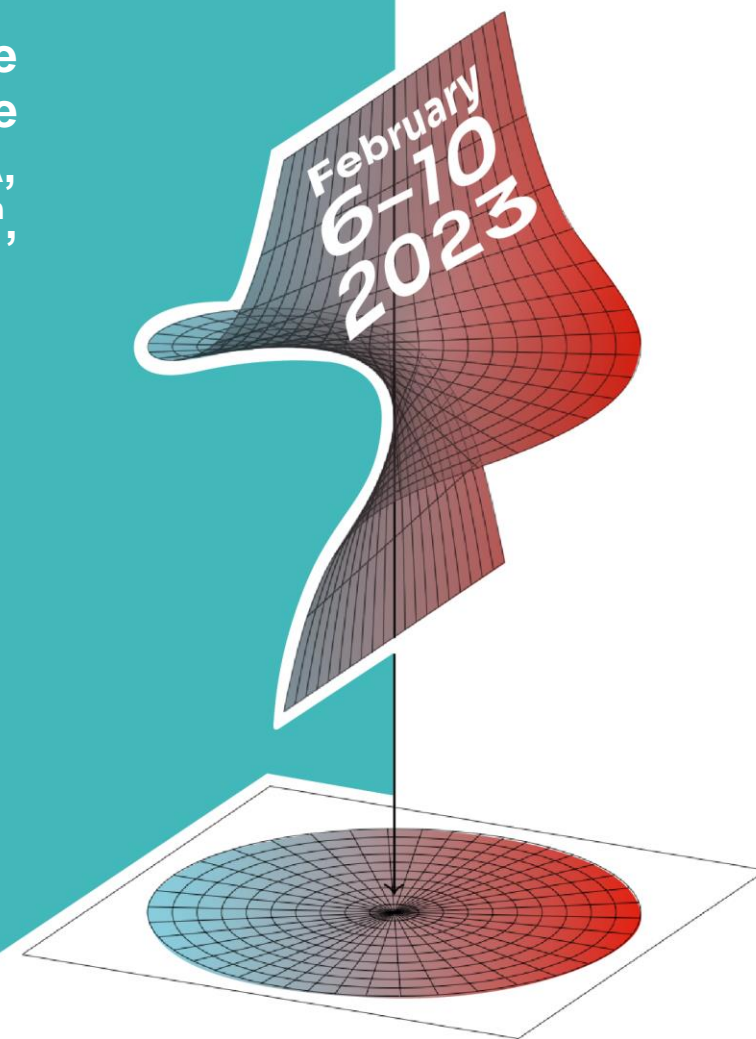
CERTIFICATE

We hereby certify that Alexander Schmitt, Freie Universität Berlin, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *General Coherent Systems*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

**15th
ALGA** (Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Alicia Dickenstein, Universidad De Buenos Aires, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Linear algebra, combinatorics and defectivity*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th ALGA

(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

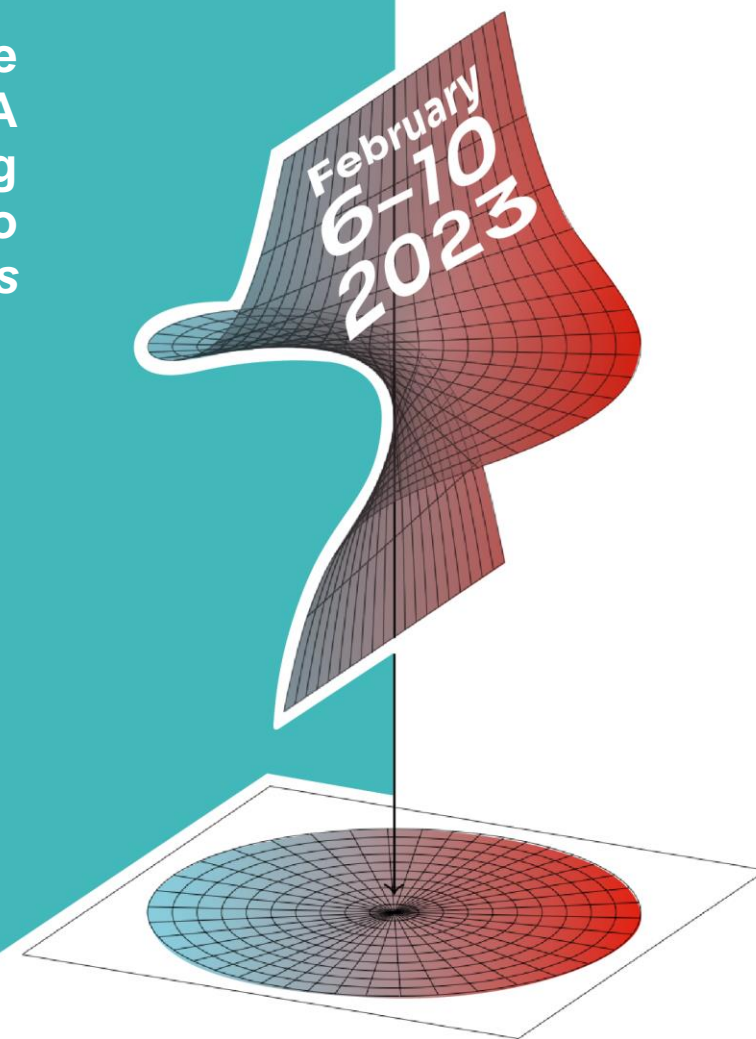
We hereby certify that Aline Andrade, Universidade Federal de Minas Gerais (UFMG), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *On rank 3 instanton bundles on projective 3 space*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th ALGA

(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



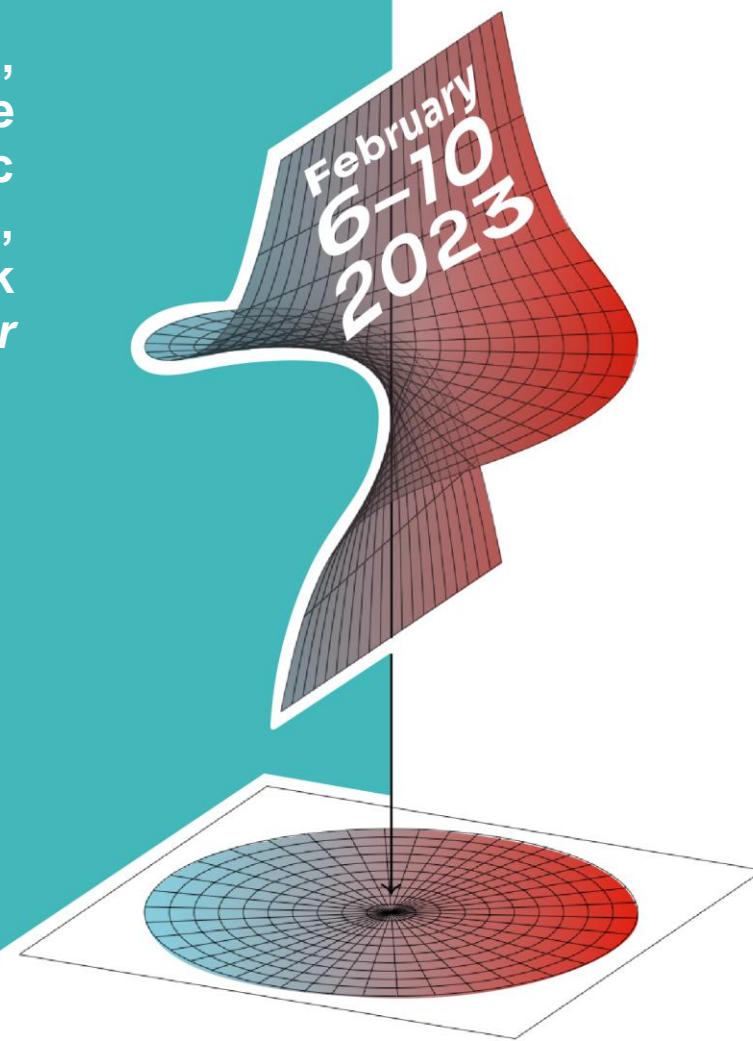
CERTIFICATE

We hereby certify that Alonso Sepúlveda Castellanos, Universidade Federal de Uberlândia (UFU), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Weierstrass Semigroups, Codes and Flags in Kummer Extensions*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

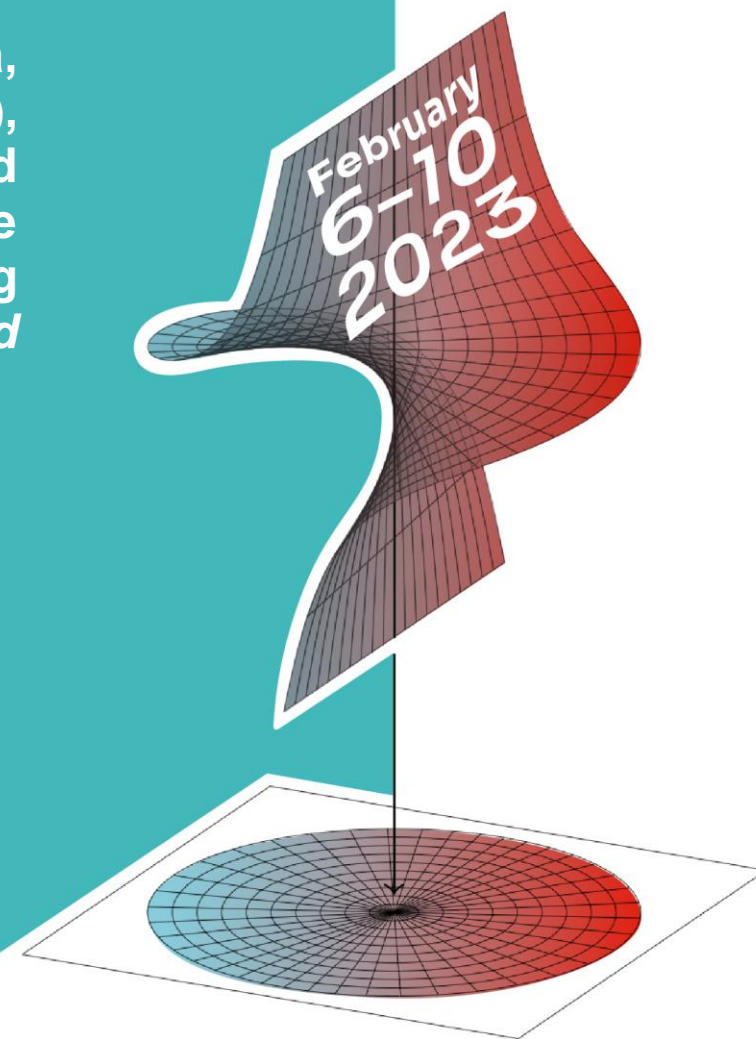
We hereby certify that André Santana Dosea, Universidade Federal da Paraíba - João Pessoa (UFPB), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *The generalized Hartshorne's problem and finiteness conditions of local cohomology modules*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th ALGA

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Algebra and
Algebraic
Geometry)



Organizer:



Support:



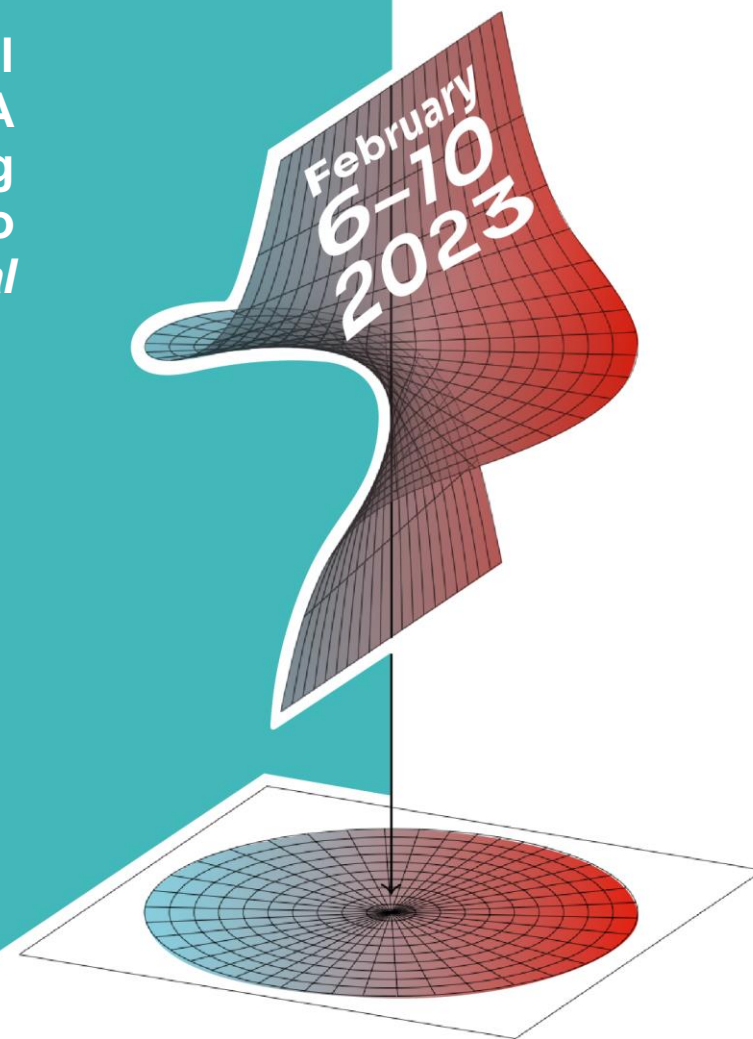
CERTIFICATE

We hereby certify that Aron Simis, Universidade Federal de Pernambuco (UFPE), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *A tale of homaloidal conjectures and related issues*

Carolina B. Araujo

Carolina B. Araujo
Coordinator

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Algebraic
Geometry)



Organizer:



Support:



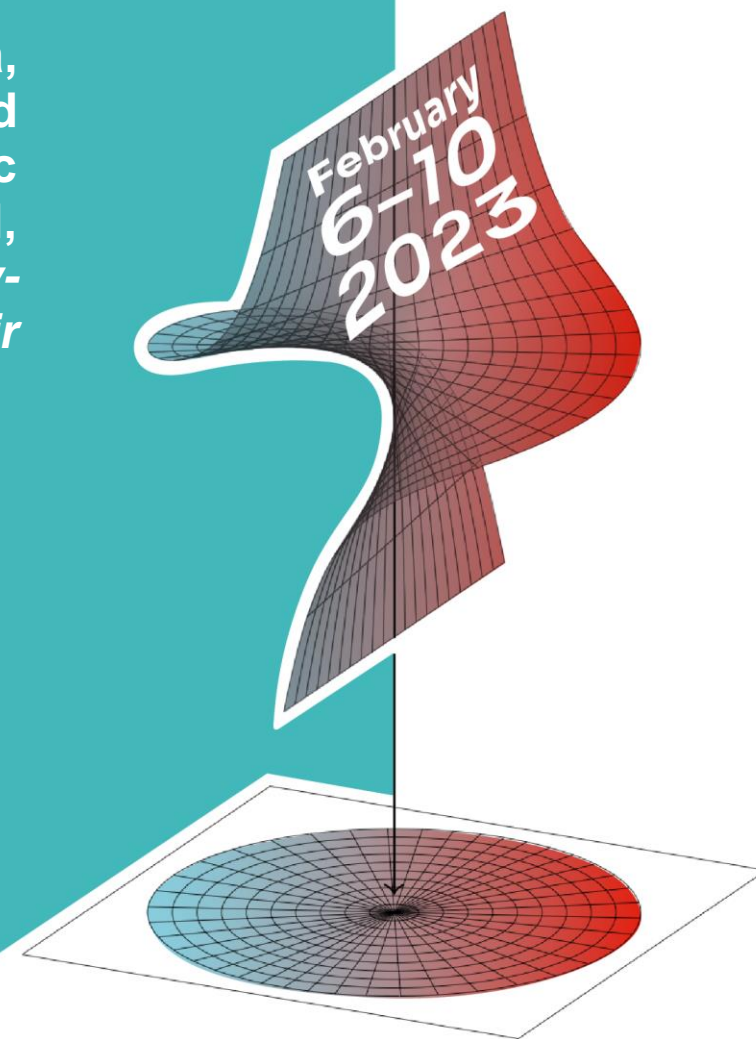
CERTIFICATE

We hereby certify that Charles Aparecido de Almeida, Universidade Federal de Minas Gerais (UFMG), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Cayley-hamilton algebras and beyond, an introduction to their geometries*.

Carolina B. Araujo

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Coordinator

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Algebraic
Geometry)



Organizer:



Support:



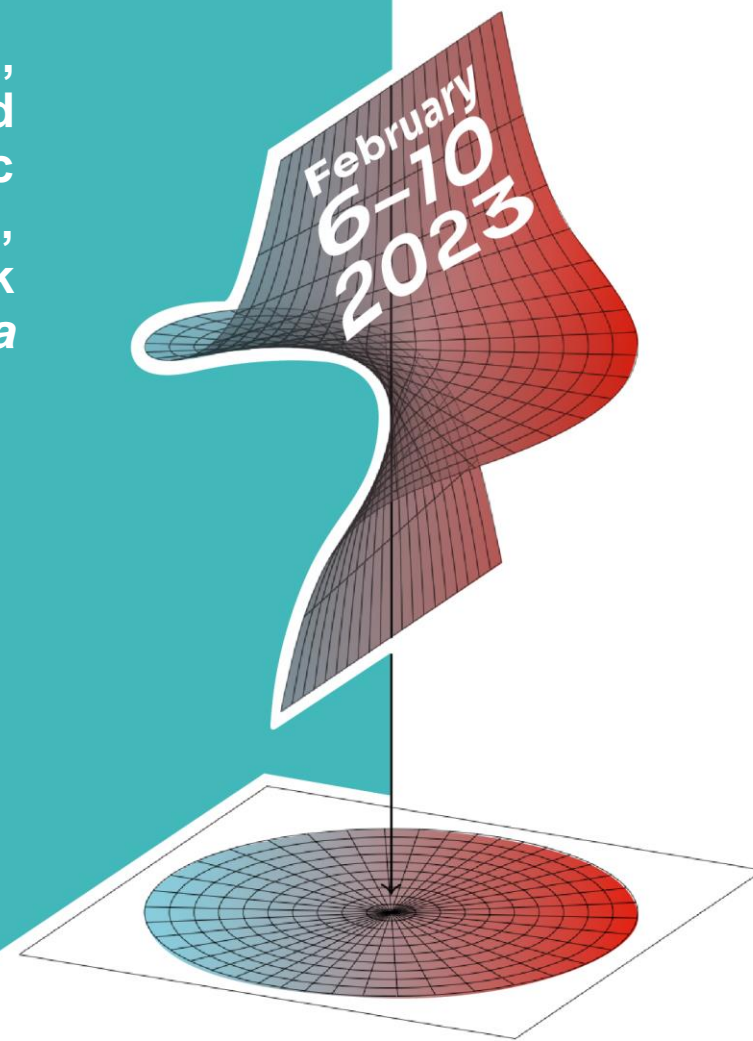
CERTIFICATE

We hereby certify that Daniela Alejandra Paiva Peñuela, Instituto de Matemática Pura e Aplicada (IMPA), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Automorphisms of quartic surfaces and Cremona transformations*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA (Commutative
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Geometry)



Organizer:



Support:



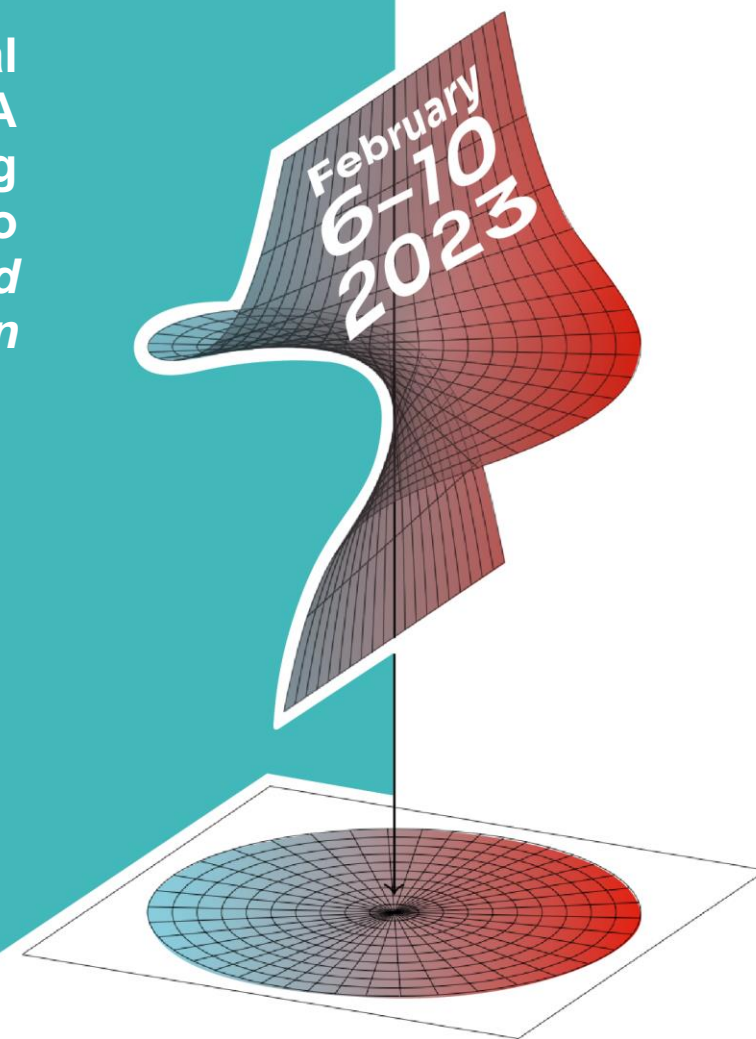
CERTIFICATE

We hereby certify that Dapeng Mu, Universidade Estadual de Campinas (UNICAMP), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Stable pairs and connectedness for moduli spaces of rank 2 sheaves on P^3* .

Carolina B. Araujo

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Organizer:



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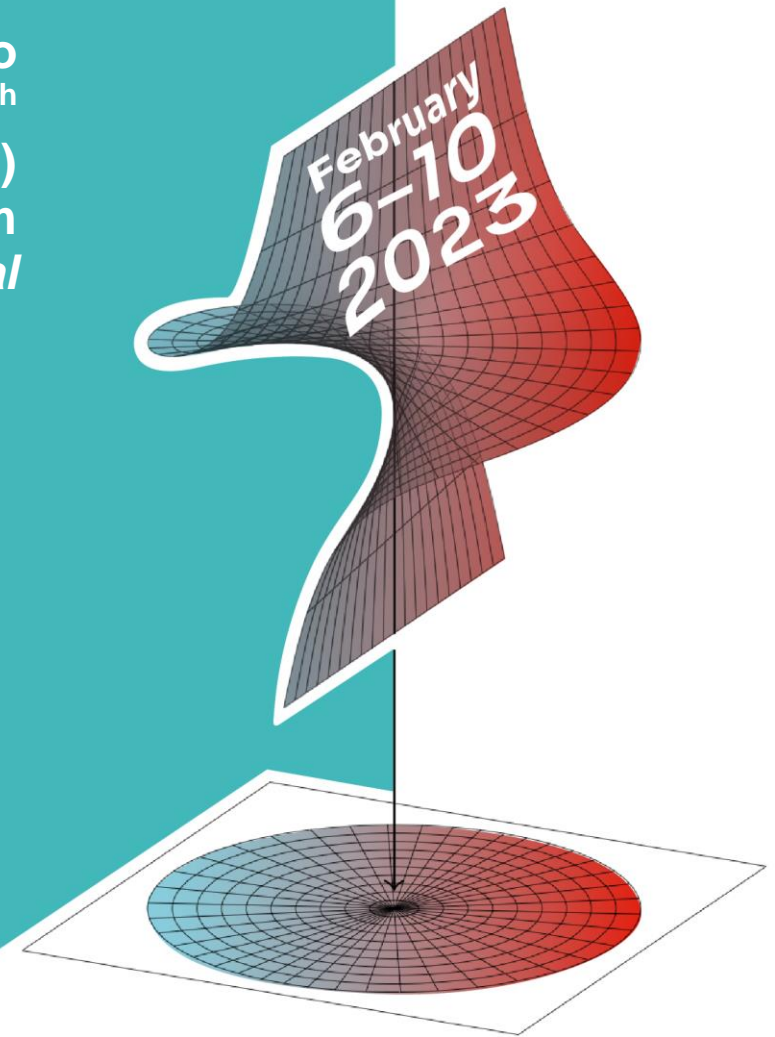
CERTIFICATE

We hereby certify that Eduardo Alves da Silva, Instituto de Matemática Pura e Aplicada (IMPA), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Birational geometry of Calabi-Yau pairs*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

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Algebraic
Geometry)



Organizer:



Support:



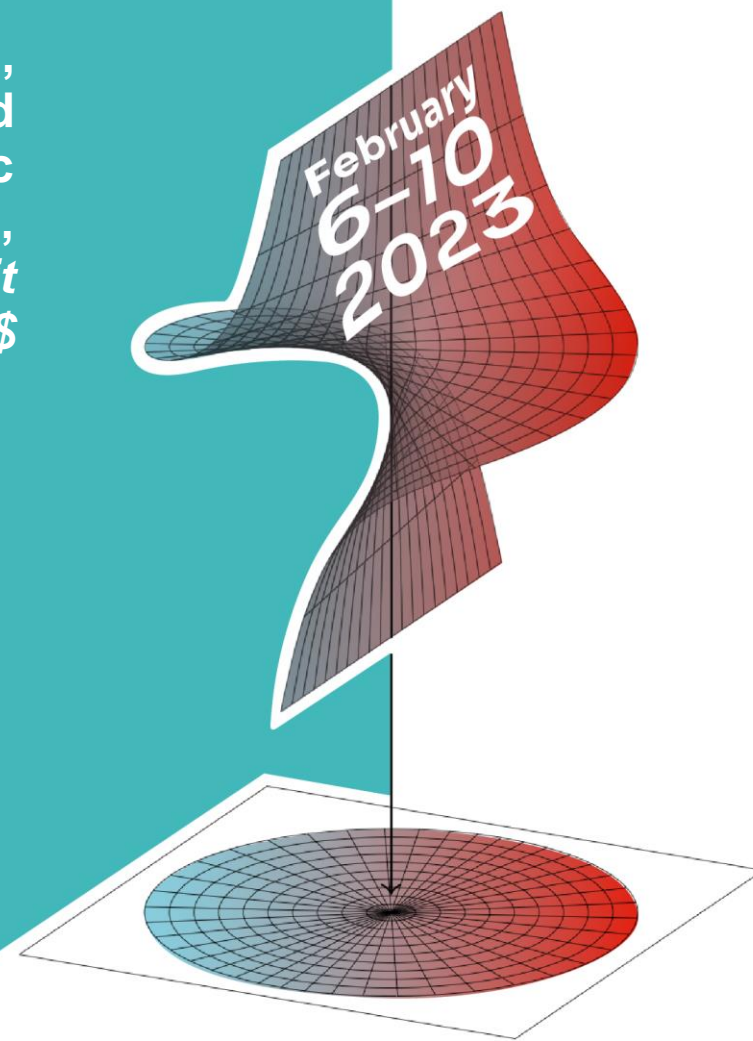
CERTIFICATE

We hereby certify that Erik Antonio Rojas Mendoza, Universidade Federal do Rio de Janeiro (UFRJ), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Explicit equations for maximal curves as subcovers of the \$BM\$ curve*.

Carolina B. Araujo

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Coordinator

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Algebraic
Geometry)



Organizer:



Support:



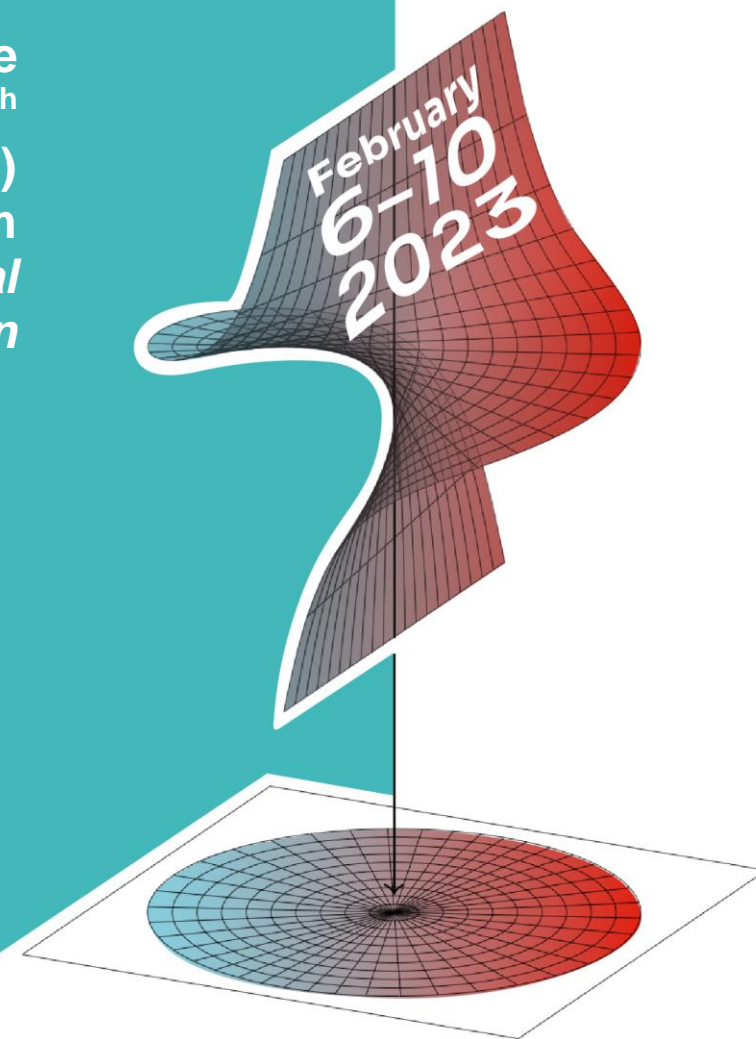
CERTIFICATE

We hereby certify that Ethan Guy Cotterill, Universidade Estadual de Campinas (UNICAMP), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Cuspidal curves, and partition arithmetic, and lattice points in polytopes*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
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(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Herivelto Martins Borges Filho, Universidade de São Paulo (USP), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Artin-Schreier extensions of minimal genus*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



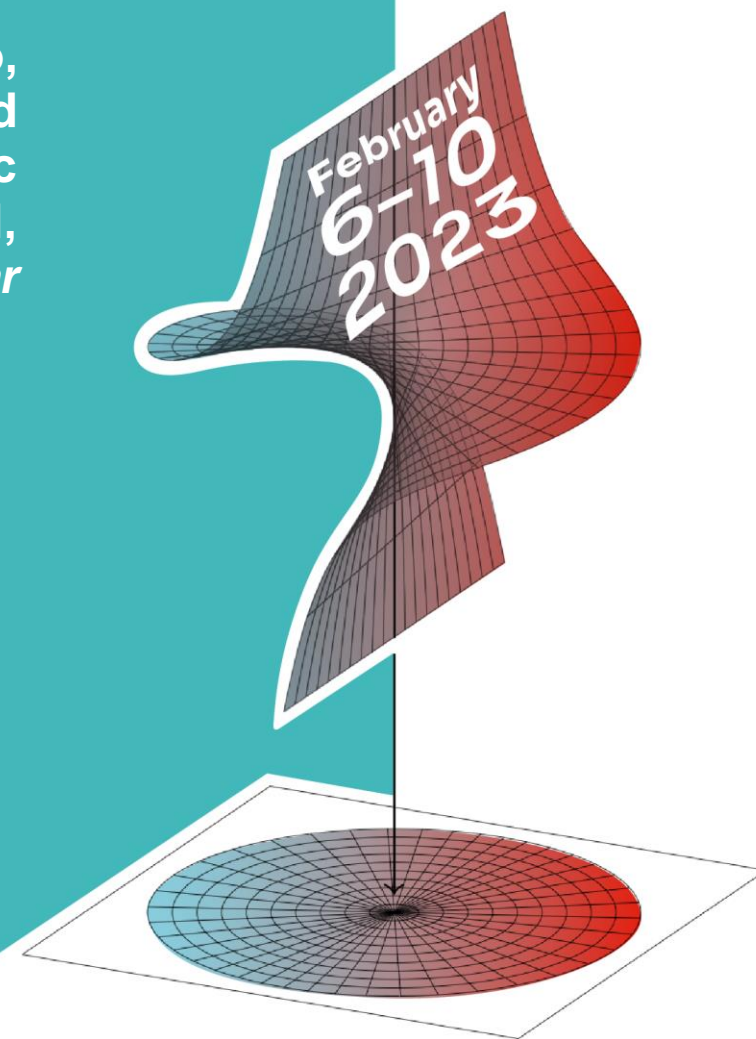
CERTIFICATE

We hereby certify that João Paulo Lindquist Figueredo, Universidade Federal de Minas Gerais (UFMG), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Regular foliations on rationally connected manifolds*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

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ALGA (Commutative
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Algebraic
Geometry)



Organizer:



Support:



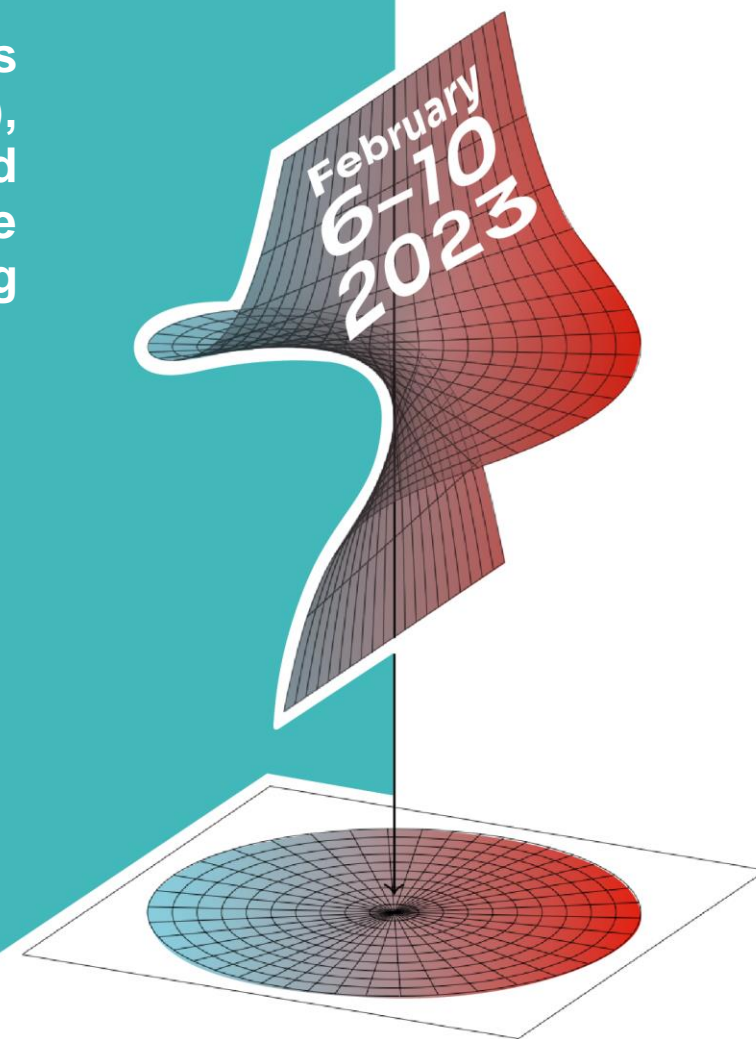
CERTIFICATE

We hereby certify that Jorge Vitório Bacellar Dos Santos Pereira, Instituto de Matemática Pura e Aplicada (IMPA), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Closed meromorphic 1-forms*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

**15th
ALGA** (Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Lucas da Silva Reis, Universidade Federal de Minas Gerais (UFMG), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *On minimal value set polynomials over finite fields*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th ALGA

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Algebra and
Algebraic
Geometry)



Organizer:



Support:



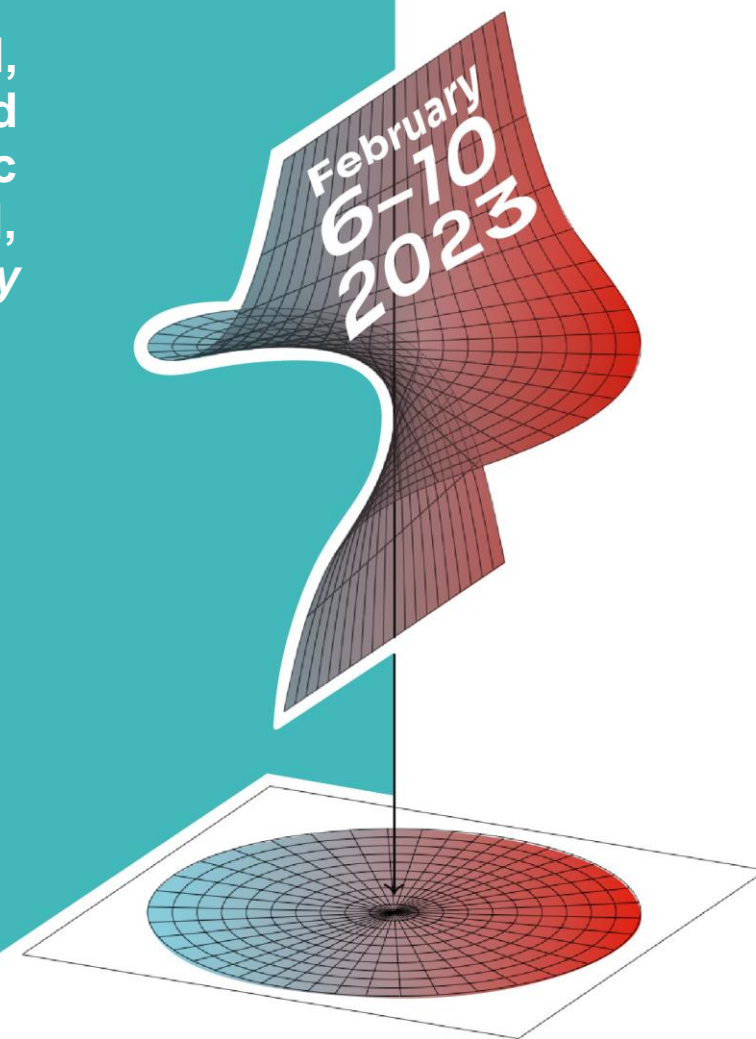
CERTIFICATE

We hereby certify that Maral Mostafazadehfard, Universidade Federal do Rio de Janeiro (UFRJ), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *A purely algebraic study of the structure of $Bir(X)$* .

Carolina B. Araujo

Carolina B. Araujo
Coordinator

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ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Marco Pacini, Universidade Federal Fluminense (UFF), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Moduli of roots in algebraic and tropical geometry*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

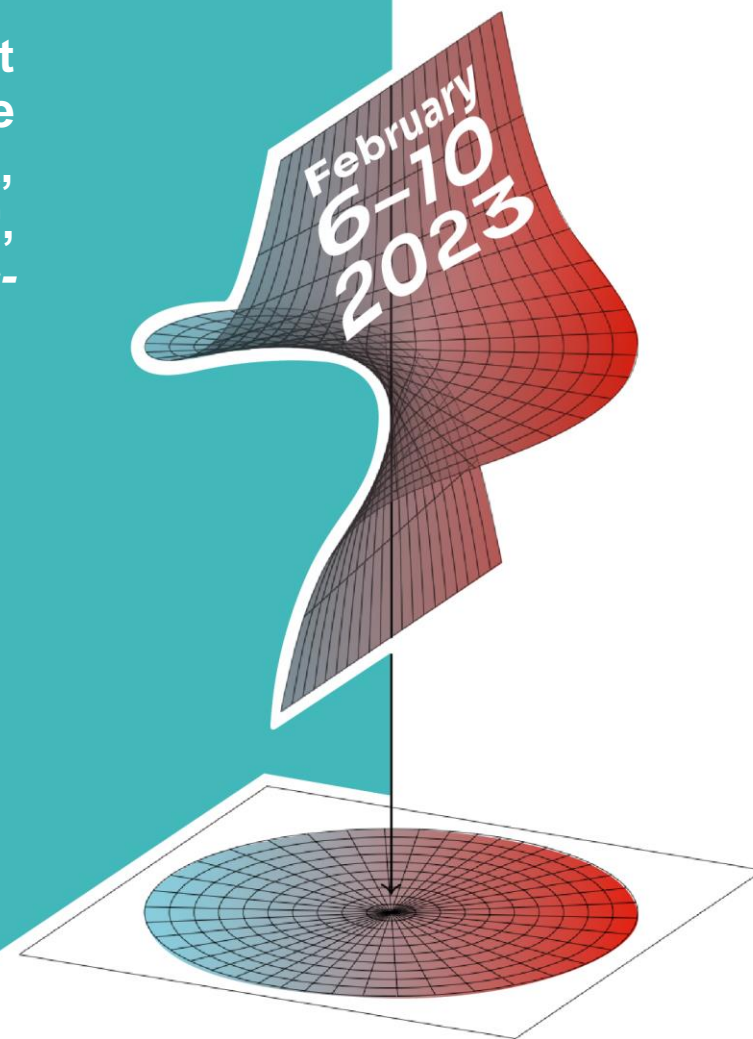
We hereby certify that Maria Bras-Amorós, Universitat Rovira i Virgili, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Numerical semigroups and algebraic-geometry codes*.



Carolina B. Araujo
Coordinator

15th ALGA

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Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Mariana Rosas Ribeiro, Universitat Rovira i Virgili, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *On infinite chains of numerical semigroups*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Paolo Cascini, Imperial College London, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Minimal models for foliated varieties*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



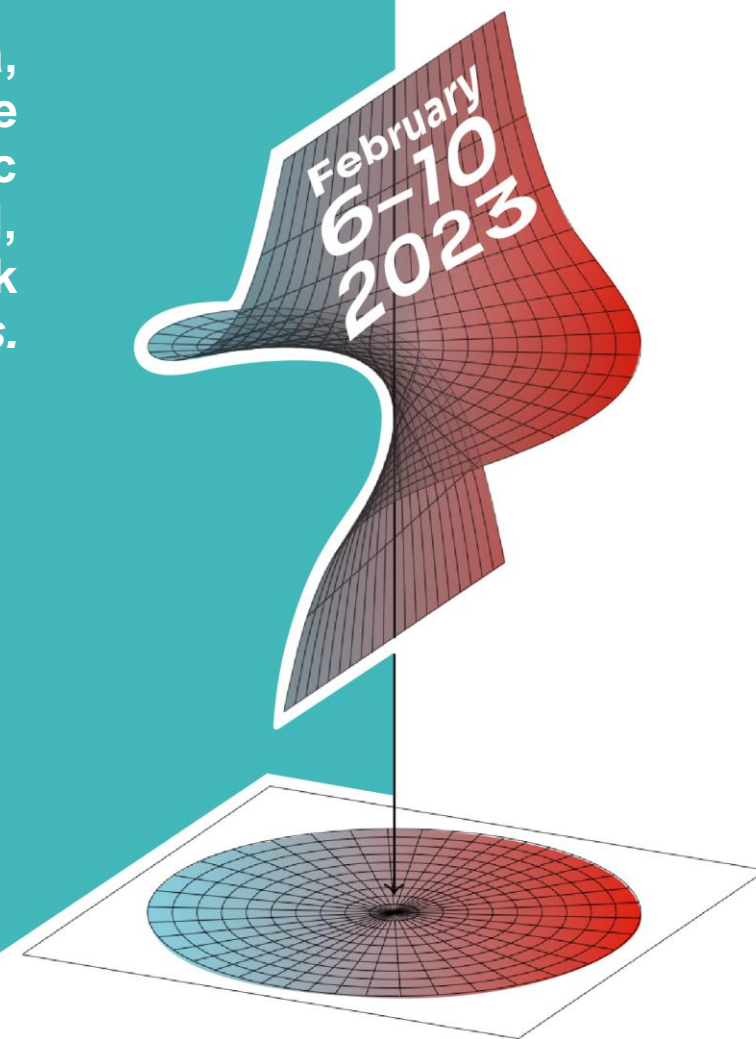
CERTIFICATE

We hereby certify that Pedro Pablo Montero Silva, Universidad Técnica Federico Santa María, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Unipotent group structures on quintic del Pezzo varieties*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Rafael Ferreira Holanda, Sem Vínculo, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Homology of multiple complexes and Mayer-Vietoris spectral sequences*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



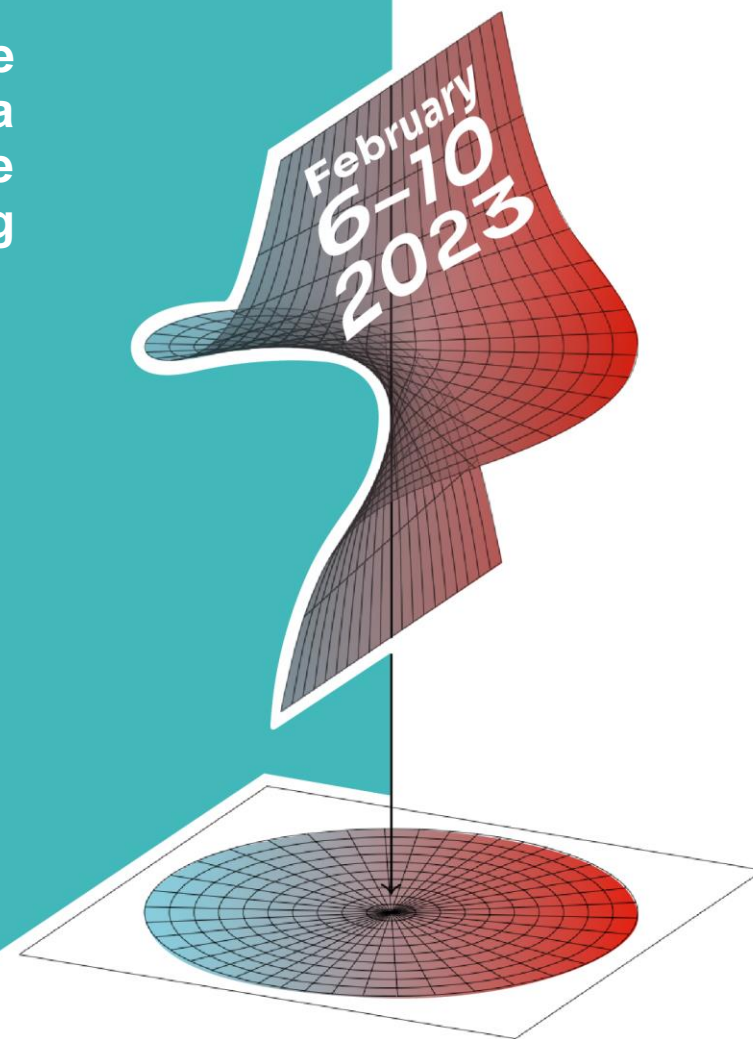
CERTIFICATE

We hereby certify that Renzo Cavalieri, Colorado State University, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Pseudo-stable Hodge integrals*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Rob Silversmith, University Of Warwick, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Cross-ratios and perfect matchings*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Sajad Salami, Universidade do Estado do Rio de Janeiro (UERJ), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Generators and splitting field of the certain elliptic K3 surfaces*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



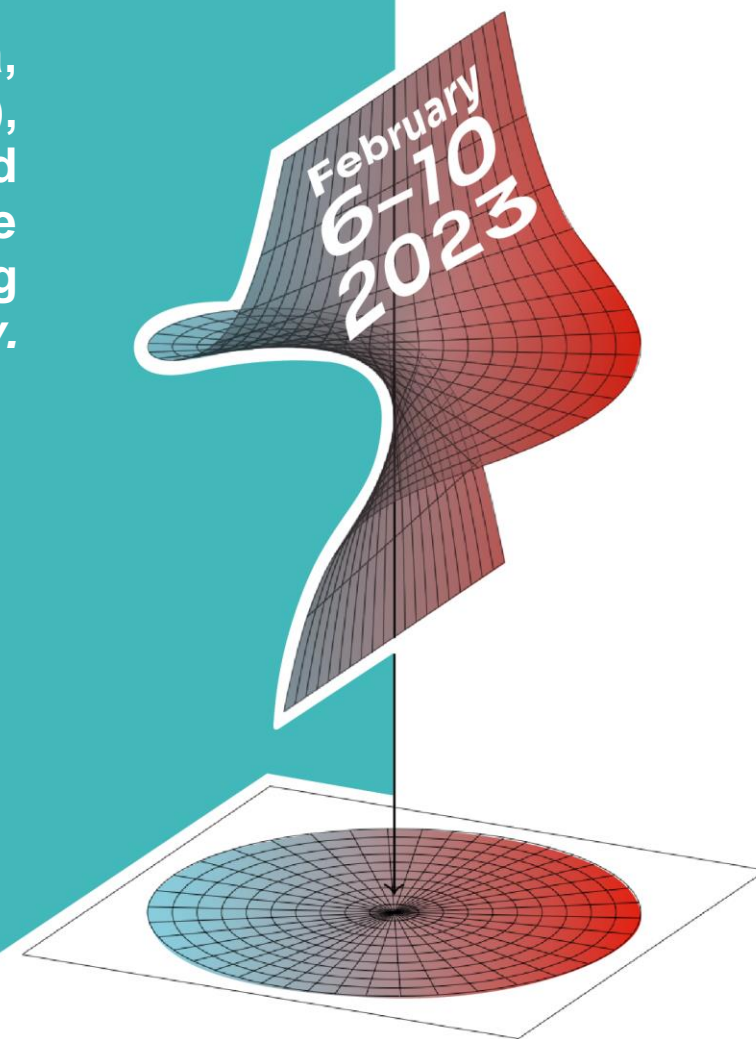
CERTIFICATE

We hereby certify that Sally Andria Vieira da Silva, Universidade do Estado do Rio de Janeiro (UERJ), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Abel maps for nodal curves via tropical geometry*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
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Algebra and
Algebraic
Geometry)



Organizer:



Support:



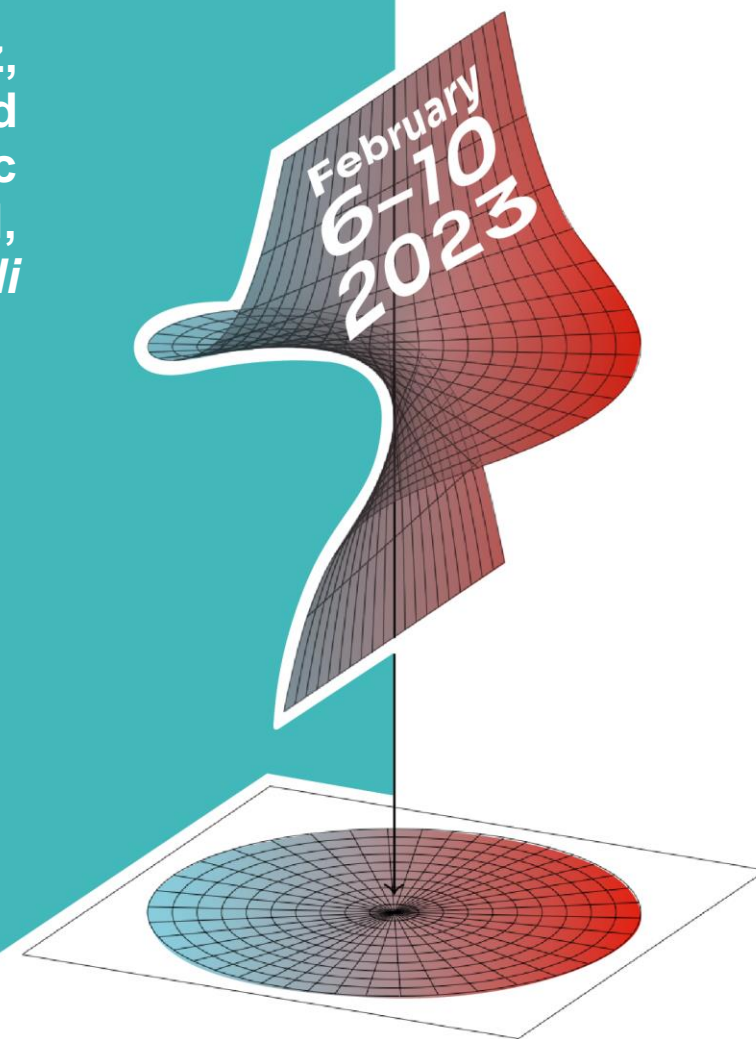
CERTIFICATE

We hereby certify that Sebastian Lucas Velazquez, Instituto de Matematica Pura e Aplicada (IMPA), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Moduli spaces of Lie algebras and foliations*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
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Algebra and
Algebraic
Geometry)



Organizer:



Support:



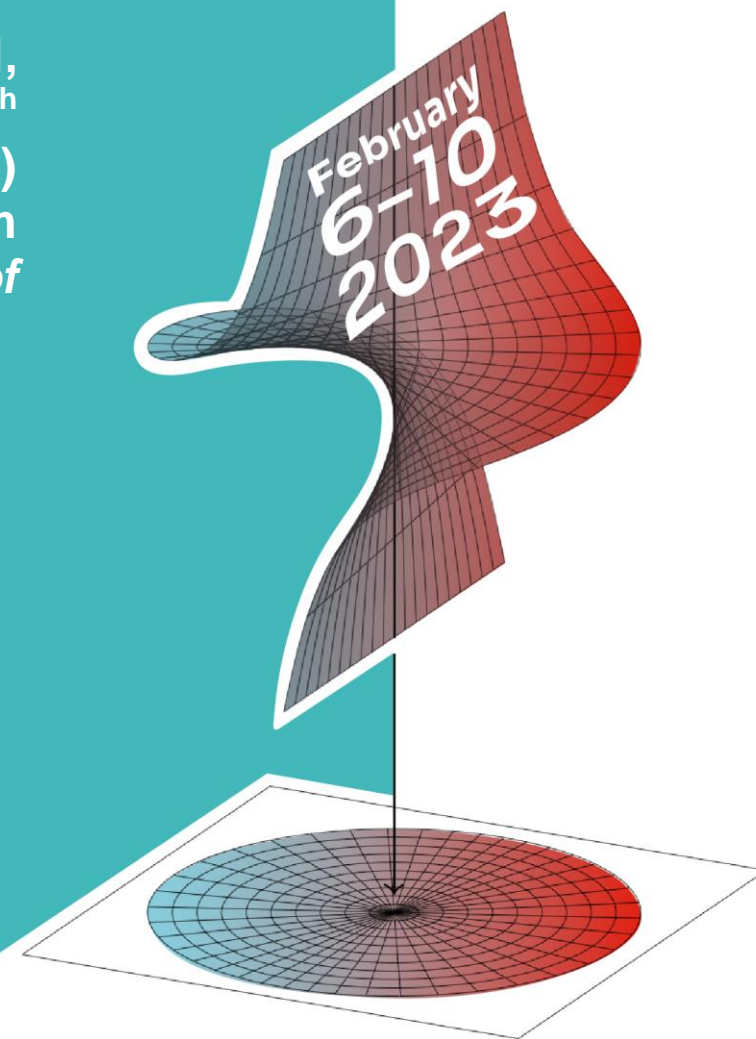
CERTIFICATE

We hereby certify that Thiago Fassarella do Amaral, Universidade Federal Fluminense (UFF), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Moduli of Higgs bundles over the five punctured sphere*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Tyler Kelly, The University Of Birmingham, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Mirror Symmetry for Landau-Ginzburg Models*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Ugo Bruzzo, Scuola Internazionale Superiore Studi Avanzati - Trieste, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Superschemes embeddable into supergrassmannians*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

We hereby certify that Victor Hugo Jorge Pérez, Universidade de São Paulo - São Carlos (USP - SÃO CARLOS), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *On coefficient ideals*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th ALGA

(Commutative
Algebra and
Algebraic
Geometry)



Organizer:



Support:



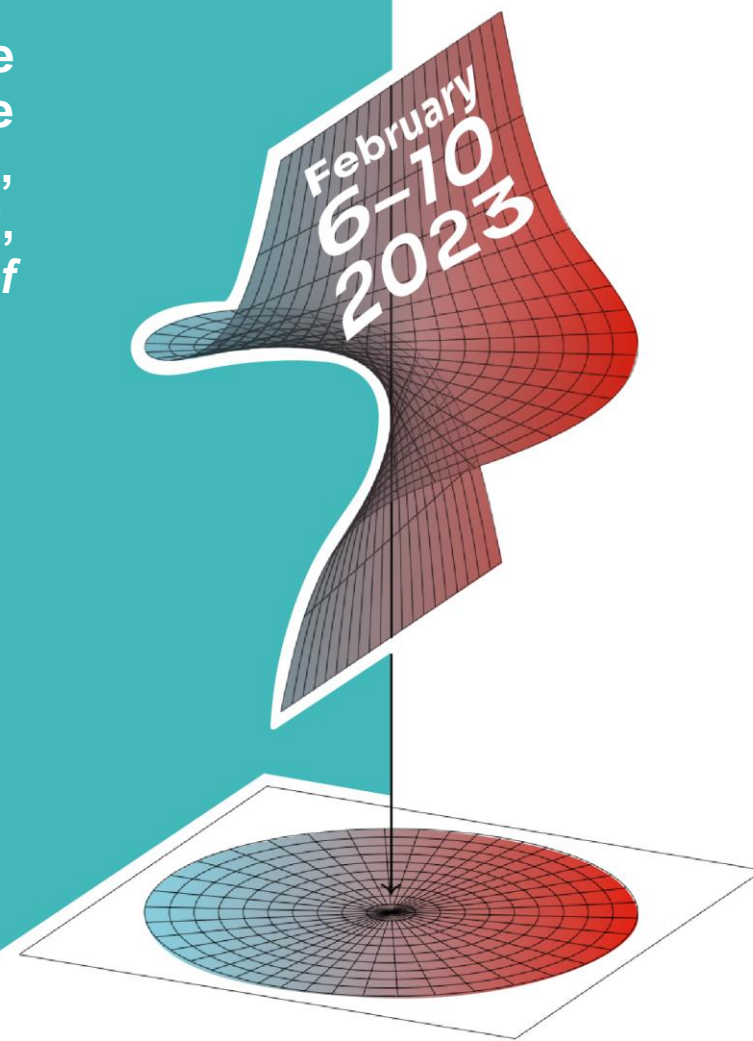
CERTIFICATE

We hereby certify that Vladimiro Benedetti, Université De Bourgogne, attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Divisors in the moduli space of Debarre-Voisin varieties*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th
ALGA
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Algebra and
Algebraic
Geometry)



Organizer:



Support:



CERTIFICATE

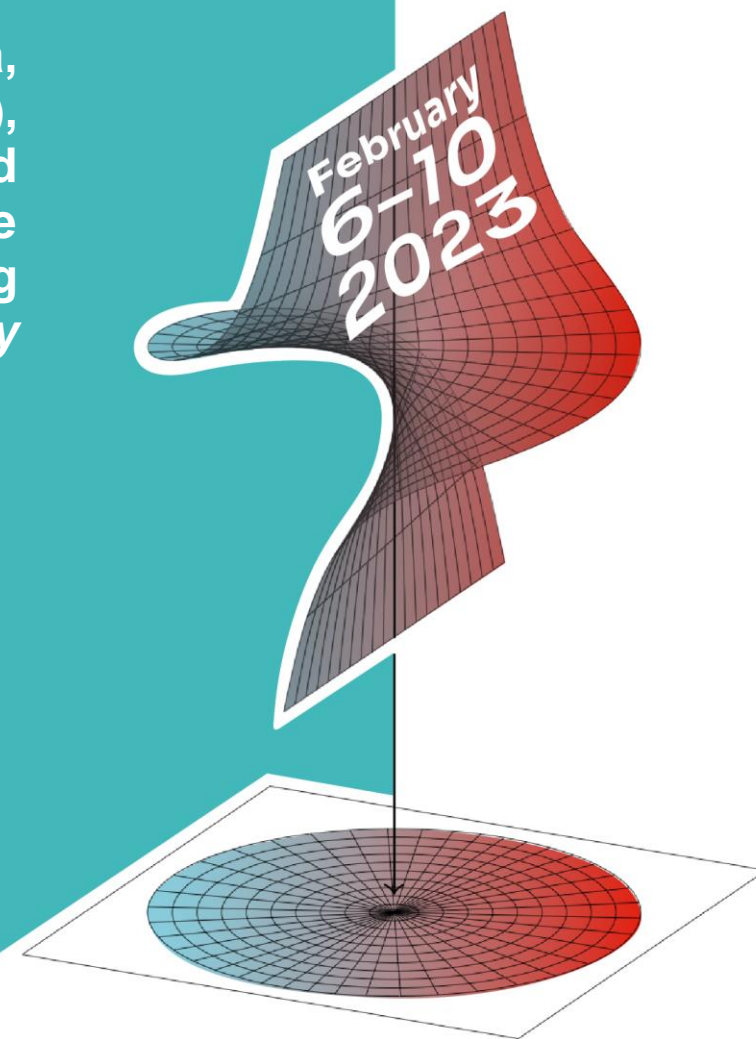
We hereby certify that Wállice Mangueira de Sousa, Universidade Federal da Paraíba - João Pessoa (UFPB), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *Discriminant, general type and vertex of a family of polynomials*.

Carolina B. Araujo

Carolina B. Araujo
Coordinator

15th ALGA

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Geometry)



Organizer:



Support:



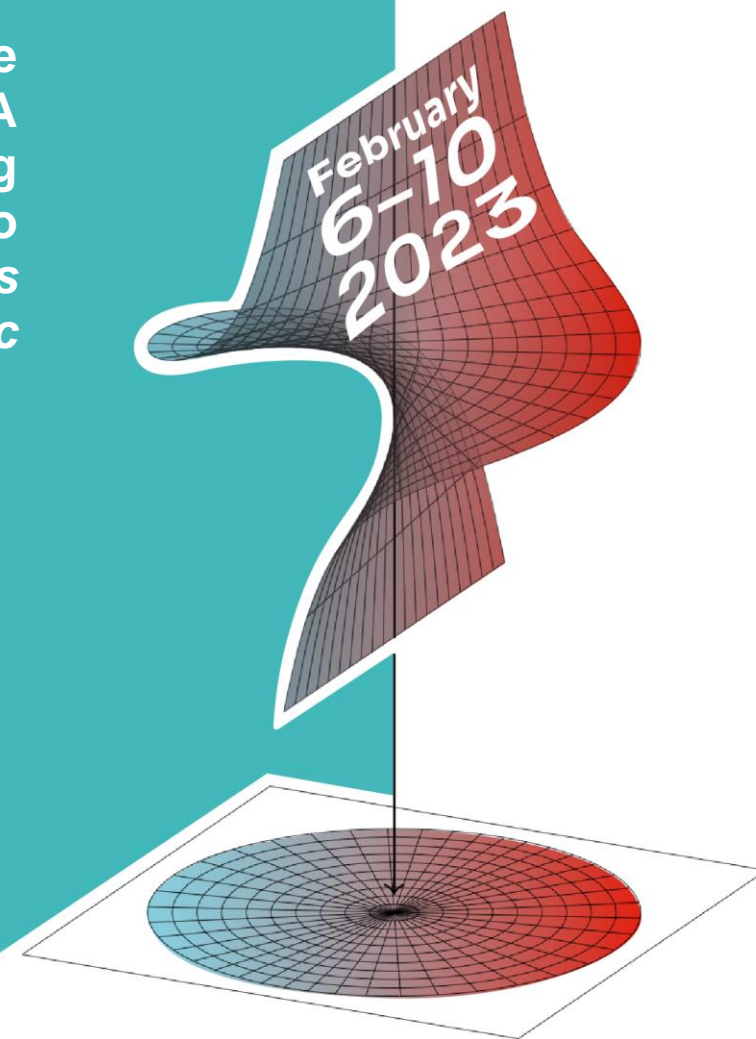
CERTIFICATE

We hereby certify that Zaqueu Alves Ramos, Universidade Federal de Sergipe (UFS), attended the 15th ALGA (Commutative Algebra and Algebraic Geometry) meeting held in IMPA, Rio de Janeiro, Brazil, from February 06th to the 10th, presenting the talk *De Jonquieres transformations in arbitrary dimension. An ideal theoretic view.*

Carolina B. Araujo

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Organizer:



Support:

