



I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Ademir Pastor (UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **As desigualdades de Gagliardo-Nirenberg e aplicações** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Adriana Leiras (Pontifícia Universidade Católica do Rio de Janeiro)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A utilização de pesquisa operacional para apoio à decisão na logística humanitária** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Adriano Polpo (UFSCar)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **The sticker collector's problem in the classroom** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Agnaldo Farias (UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Formulações de elementos finitos e simulação multifísica** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Agnaldo J. Ferrari (UNESP-Bauru)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Construção de reticulados em dimensão potência de 3** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Al Omari Mohammed Ahmed (AlBaha University)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Bayesian using modified Jeffreys prior for Weibull regression censored data** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Alan Muniz (UFMG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Cotas Polinomiais para grupos de automorfismos de folheações** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Alberto Marcelino Efigênio Levi (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Reflection theorems for local cardinal functions** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Alex Carlucci Rezende (USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **The geometry of quadratic vector fields possessing semi-elemental saddle-nodes** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Alexey Kuzmin (IME - USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Basic superranks for varieties of algebras** ” in the Algebra special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Ana Carla Piantella (Universidade Federal de Uberlândia)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Alguns resultados sobre diferenciabilidade de funções positivas denidas** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Ana Mendes (Univ. Coimbra - Portugal)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On the relation between the full Kostant-Toda lattice and matrix orthogonal polynomials** ” in the Orthogonal Polynomials and Applications special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Anderson Tiago da Silva (UFV)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Códigos Cíclicos de Comprimento  $Sp^n$ , sobre anéis de Cadeia** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**André Belotto (University of Toronto)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Examples of non-trivial accumulation of secants in dimension three** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Andrés David Báez Sánchez (Universidade Tecnológica Federal do Paraná, Curitiba/PR)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Método pseudospectral para solução numérica e de problemas de controle ótimo em biomatemática** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Andrew Clarke (UFRJ)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Instantos on the Expectional Holonomy Manifolds of Bryant and Salamon** ” in the Geometry special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Anibal Azevedo (Universidade Estadual de Campinas)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Otimização de Operações Portuárias** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Anne Bronzi (UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On the self-similar blow-up scenario for the Euler equations** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Antonio Campello (IMECC-Unicamp)**

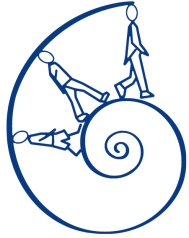
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Códigos para Armazenamento Distribuído: Aspectos Combinatórios** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Antonio Marcos F. Da Silva (UFMG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Folheações holomorfas em Variedades de Hopf** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Arnulfo Miguel R. Pena (UFMG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Teorema de Baum-Bott para orbifolds e aplicações** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Arturo Ulises Fernandez Perez (UFMG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Singularities of Levi-flat hypersurfaces and holomorphic foliations** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Atila Arueira Jones (UFF)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Integralidade Laplaciana em grafos  $\mathbb{P}_4$ -esparsos** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Awad Al-Mohy (King Khalid University)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On the Computation of the Matrix Logarithm** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Benito Pires (FFCLRP/USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Dinâmica de contrações suaves por pedaços** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Brice Rodrigue Mbombo (IME\_USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Non-universality of the group of isometries of the Urysohn-Katetov metric spaces** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Bruna Oréfica Okamoto (UFSCAR)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Deformações não-negativas de singularidades quase homogêneas** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Caio Lucidius N. Azevedo (UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Bayesian longitudinal item response modeling with restricted covariance pattern structures** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Carina Alves (UNESP-Rio Claro)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Construction of lattices from quaternion algebras** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Carlos Felipe Lardizabal (Universidade Federal do Rio Grande do Sul (UFRGS))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Open quantum random walks and the recurrence problem** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Carlos Grossi (ICMC-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Invariants of (Complex) Hyperbolic Manifolds** ” in the Geometry special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Carlos Martinez-Ranero (Universidad de Concepcion)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Katetov order on MAD families** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Carlos R. B. Azevedo (Universidade Estadual de Campinas)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Learning to Anticipate Flexible Trade-off Choices** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Catalina Rúa (Universidad de Nariño - Colombia)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Numerical Solution to Stokes Equations on the block structured adaptive mesh refinement approach including matrices representation** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Cesar Hernandez-Velez (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Nonseparating paths in spanning trees** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Cícero Aquino (UFPI)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On the Umbilicity of Complete Constant Mean Curvature Spacelike Hypersurfaces** ” in the Geometry special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Cintya Wink de Oliveira Benedito (IMECC-Unicamp)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Reticulados Hiperbólicos Completos** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Cláudia Pio Ferreira (IBB/UNESP (Campus Botucatu))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Influência da paisagem no controle de insetos-pragas de importância econômica** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Cristian Ortiz (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Lie Theory for Algebroid 2-representations** ” in the Geometry special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Cristian Spitoni (Utrecht University)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Series of metastable states for Reversible Probabilistic Cellular Automata** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







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IME-USP

I hereby certify that

**Cristiane Maria Sato (UFABC)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Grafos aleatórios com grau no mínimo  $k$**  ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Damián Fernández (Universidad Nacional de Córdoba)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Local convergence of perturbed Sequential Quadratic Programming** ” in the Optimization special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Daniel Aloise (Universidade Federal do Rio Grande Norte)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Modelos e métodos de pesquisa operacional aplicada à segmentação de consumidores** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Daniela Cantane (Universidade Estadual Paulista)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Otimização da Colheita da Cana-de-açúcar Visando Produção de Açúcar e Álcool** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Daniela M. Vieira (Universidade de São Paulo)**

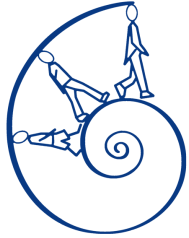
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Banach-Stone theorems for algebras of germs of holomorphic functions** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Daniele Sepe (UFF)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Singular Integral Affine Structures and Completely Integrable Hamiltonian Systems** ” in the Geometry special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Davi Maximo (Stanford)**

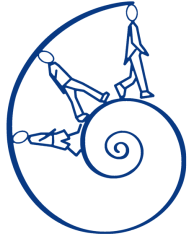
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On the Topology and Index of Minimal Surfaces** ” in the Geometry special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**David Guerrero Sanchez (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **CH implies a compact space  $K$  is metrizable if  $K^2 \setminus \Delta$  is dominated by the irrationals** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Denis Cajas Guaca (IMECC/UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Modelo Matemático e Tratamento Numérico para a Dispersão de Poluentes em Meios Aquáticos** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Diogo Diniz da Silva e Silva (UFCG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Identidades Polinomiais Graduadas em Álgebras T-primas** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Douglas Gonçalves (Universidade Federal de Santa Catarina)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Global convergence of a fixed point method for Maximum Likelihood Quantum Tomography** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Edgard Pimentel (IMPA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Regularity theory for time-dependent mean-field games** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Edilson Arruda (Universidade Federal do Rio de Janeiro)**

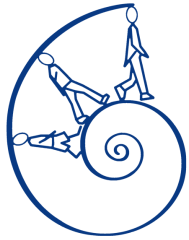
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Modelos de Pesquisa Operacional em Problemas de Gestão e Operação na Área da Saúde** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Eduardo Abreu (UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Um método Lagrangiano-Euleriano para aproximações de leis de balanço e de leis de conservação hiperbólica** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Eduardo Garibaldi (UNICAMP)**

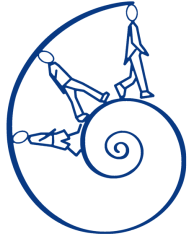
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Bifurcation of mutually coupled equations in random graphs** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Eduardo Rogerio Favaro (UFMT)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Ferramentas algébricas para o mínimo euclidiano em corpos de números abelianos** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Elaine Cristina Catapani Poletti (Faculdade de Tecnologia da UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A modelagem matemática como ferramenta de gestão ambiental** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Elen Viviani Pereira Spreafico (UFMS)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On some identities involving  $k$ -Jacobsthal numbers** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Elisa Regina dos Santos (Universidade Federal de Uberlândia)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Uma propriedade polinomial de Daugavet alternativa** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
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**IME-USP**

I hereby certify that

**Eric Ossami Endo (IME-USP)**

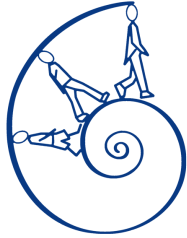
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Counting countours in trees** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Fabrício Sousa (ICMC/USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **PERFORMANCE OF PROJECTION METHODS FOR LOW-REYNOLDS-NUMBER FLOWS** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Fernando Henry Meirelles (IME - USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Weakly-skew identities of the cayley-dickson algebra** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Fernando R. Rafaeli (UFU)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Zeros of classical continuous and discrete orthogonal polynomials on the real line** ” in the Orthogonal Polynomials and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Flávio Bambirra Gonçalves (UFMG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Exact Bayesian inference in spatiotemporal Cox processes driven by multivariate Gaussian processes** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Gabriel Ponce (ICMC/USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Bernoulli property for partially hyperbolic diffeomorphisms** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Gaetano Siciliano (IME – USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Existence results for the fractional Choquard equation** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Geovani Grapiglia (UFPR)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On the convergence and complexity of trust-region and regularization methods for unconstrained optimization** ” in the Optimization special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Ghislain Fourier (University of Glasgow)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **PBW degenerated Demazure modules and Schubert varieties: posets and polytopes** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Gilcilene Paulo (FCT/UNESP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A Finite Extendable Non-linear Elastic Model applied to simulations of some complex flows** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Giorgio Venturi (CLE-Unicamp)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Generalized side conditions** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Glaydston de Carvalho Bento (UFG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A generalized inexact proximal point method for nonsmooth functions that satisfy Kurdyka Lojasiewicz inequality** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Gleydson Ricarte (UFC)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Singular perturbation methods for fully nonlinear degenerate equations: a geometric approach** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Graciele P. Silveira (CCTS, UFSCar (Campus Sorocaba))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Nomograma para predição do estágio do Câncer de Próstata usando Lógica Fuzzy** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Grasiele Cristiane Jorge (Unifesp-São José dos Campos)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Reticulados  $D_n$ -rotacionados para  $n=(p-1)/4$  com  $p$  primo** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Gustavo de Oliveira (Universidade Federal de São Carlos (UFSCar))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Quantitative derivation of the Gross-Pitaevskii equation** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Gustavo Hoepfner (UFSCar)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Estimativas de Sobolev nos espaços de Hardy locais** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Henrique Sá Earp (UNICAMP)**

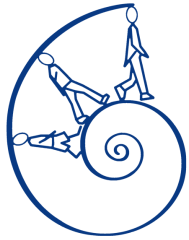
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **G2-instantons over twisted connected sums** ” in the Geometry special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Henry Jose Gullo Mercado (ICMC-USP)**

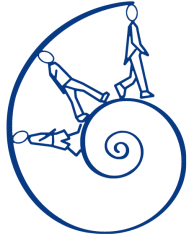
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Characterization of linearly Lindelöf topological spaces through family of discrete sets** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Igor Lima (UFG - Catalão)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Pro-p Completions of Poincaré Duality Groups** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Ivaldo Nunes (UFMA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Minimal Surfaces with Free Boundary** ” in the Geometry special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Izabella Stuhl (IME - USP and University of Debrecen)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Block designs from algebraic point of view** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**J. Nazareno Gomes (UFAM)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Compact Gradient Generalized Quasi-Einsteins Metrics with Constant Scalar Curvature** ” in the Geometry special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Jairo Mengue (Universidade Federal do Rio Grande do Sul (UFRGS))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Entropy, pressure and duality** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Jean Carlo Pech de Moraes (Universidade Federal do Rio Grande do Sul)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Análise harmônica diádica e a conjectura A2** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Jefferson Melo (UFG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Augmented Lagrangian type function and Subgradient Method** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**João Carlos de Oliveira Souza (COPPE-UFRJ)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A proximal point algorithm for DC fuctions on Hadamard manifolds** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**João Paulo Gois (UFABC)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Investigando o Uso da Técnica de Level-Set com Funções de Bases Radiais no Método Marker-and-Cell** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Joedson Santos (Universidade Federal da Paraíba)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Um problema de O. Blasco e T. Signes sobre operadores someantes** ” in the Functional Analysis, Approximation and Applications special session.

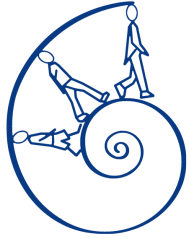
São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







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Matemática Pura e Aplicada



IME-USP

I hereby certify that

**John MacQuarrie (UFMG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Profinite permutation  $Z_p$ -lattices for finite  $p$ -groups** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Jony Arrais Pinto Junior (UFF)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Análise do padrão de pontos de órbitos por doença cerebrovascular no Rio de Janeiro com coeficientes variando espacialmente** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**José Alberto Ramos (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On sequential second-order optimality conditions, constraint qualifications and applications to mathematical programming** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**José Carlos Rubianes Silva (IMECC/UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A Influência da Dispersão de Material Impactante na Dinâmica Populacional Entre Duas Espécies de Peixes** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**José Claudinei Ferreira (Universidade Federal de Uberlândia)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On reproducing kernel Hilbert spaces and approximation** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**José Javier Cerda Hernández (University of São Paulo (USP))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Critical line for a Potts model coupled to causal dynamical triangulations** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**José Yunier Bello-Cruz (UFG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On Proximal Forward-Backward Splitting Method for Nonsmooth Optimization Problems** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Juan Pablo Luna (Universidade Federal do Rio de Janeiro)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Benders Decomposition for Equilibrium Problems with Risk Aversion** ” in the Operations Research special session.

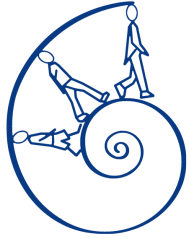
São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Julián F. Martínez (Universidad de Buenos Aires)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Variational description of Gibbs-non-Gibbs dynamical transitions for spin-flip systems** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Juliana Sartori Ziebell (Universidade Federal do Rio Grande - FURG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Transporte e ressuspensão de sedimentos finos por ondassobre um leito viscoelástico** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Juliano de Bem Francisco (UFSC)**

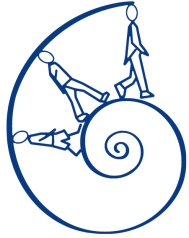
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Electronic Structure Calculations, density functional theory and algorithms** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Julio Andrade (University of Oxford)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Some Problems in Analytic Number Theory for Polynomials over Finite Fields** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Kaliana Freitas (UnB)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Sobre Uma Condição de Finitude para Subgrupo Verbal com Respeito à Palavra de Engel** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Kélem Gomes Lourenço (IME/UFG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Análise de estabilidade do modelo da vibração das pregas vocais** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Kelly Cristina Poldi (Universidade Estadual de Campinas)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Formulações Matemáticas para o Problema de Corte de Estoque Multiperíodo** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Kenier Castillo (-)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **The discrete extension of Markov’s theorem on monotonicity of zeros** ” in the Orthogonal Polynomials and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Kostiantyn Iusenko (IME - USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Twisted hall algebra of bound quiver with small homological dimension** ” in the Algebra special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Leonardo B. Lima Santos (Centro Nacional de Monitoramento e Alertas de Desastres Naturais)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Desastres Estruturais: Problemas Mecânicos e Térmicos, Parabólicos e Hiperbólicos** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Leonardo Bacelar Lima Santos (Cemaden-MCTI)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Sobre dados de mobilidade em modelos epidemiológicos - estendendo conceitos de redes complexas para abranger explicitamente o espaço em escala intraurbana** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Leonardo Bastos (Fiocruz)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Multilevel binary regression with outcome uncertainty** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
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IME-USP

I hereby certify that

**Leticia Rodrigues Bueno (UFABC)**

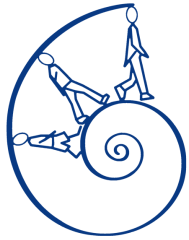
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Hamiltonian cycles in 4-connected 4-regular Claw-free graphs** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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IME-USP

I hereby certify that

**Lucas Backes (IMPA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Dynamical cohomology: Examples and recent developments** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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IME-USP

I hereby certify that

**Lucas Garcia Pedroso (UFPR)**

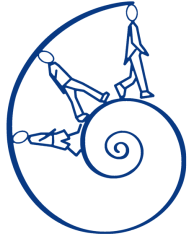
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A trust-region algorithm with models based on support vector regression** ” in the Optimization special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Lucas Kaufmann (IMJ-PRG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Medidas de Monge-Ampère à Potencial Holderiano e integrabilidade de funções p.s.h** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Luciana Salgado (UFBA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Funções de Lyapunov e hiperbolicidade** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Luciano Mari (UFC)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On the Density and the Spectrum of Minimal Submanifolds in Space Forms** ” in the Geometry special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Luís Felipe Bueno (UNIFESP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A Flexible Inexact Restoration Method and Multiobjective Application** ” in the Optimization special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Luis G. Maza (UFAL)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Formas normais de sistemas de Engel singulares** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Luis Renato G. Dias (UFU)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Detecting bifurcation values at infinity of real polynomials** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Luiz Gustavo Farah (UFMG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Existence of maximizers for Airy-Strichartz inequalities** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Luiz Rafael dos Santos (Universidade Federal de Santa Catarina)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Optimized Choice of Parameters in Interior Point Methods for Linear Programming** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Luna Lomonaco (IME/USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Holomorphic dynamics, polynomials, polynomial-like maps and parabolic-like mappings** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Maël Mevel (Université de Bordeaux)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Frenkel-Kontorova model and Gibbs measures** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Mael Sachine (UFPR)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Three works on derivative-free optimization** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Magda da Silva Peixoto (CCTS, UFSCar (Campus Sorocaba))**

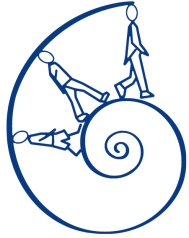
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Uma abordagem via Teoria dos Conjuntos Fuzzy para um modelo presa-predador** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Manuel González Navarrete (University of São Paulo (USP))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Phase transition in ferromagnetic Ising model with a cell-board external field** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Manuela da Silva Souza (UFBA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Propriedade de Specht das identidades graduadas de álgebras não associativas** ” in the Algebra special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Marcel de Carli Silva (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Somas esparsas de matrizes positivas semidefinidas** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Marcelo Amaral (PUC – RJ)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Problema de transmissão com fronteira livre** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Marcelo Lauretto (EACH-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Proposta de um Algoritmo para Indução de Árvores de Classificação para Dados Desbalanceados** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Marcelo Veloso (UFSJ)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On locally nilpotent derivations of Fermat Rings** ” in the Algebra special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Marcin Sabok (McGill University)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Automatic continuity for isometry groups** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Márcio Batista (UFAL)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A Linear Isoperimetric Inequality and Eigenvalue Estimates in Weighted Manifolds** ” in the Geometry special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Márcio Diniz (UFSCar)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On probability and subjectivism** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Márcio Gameiro (ICMC/USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Métodos Numéricos Rigorosos para EDPs** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Márcio Pivello (UFU)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A fully adaptive front tracking method for the simulation of two phase flows** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Marcone Pereira (IME – USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **The Neumann problem in oscillating thin domains** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Marcos Pimenta (FCT – UNESP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Existência e concentração em esferas de soluções de equações de Schrödinger não-lineares** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Maria das Neves Rebocho (Univ. Beira Interior - Portugal)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On Laguerre-Hanh orthogonal polynomials on non-uniform lattices** ” in the Orthogonal Polynomials and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**María Laura Schuverdt (Universidad Nacional de La Plata)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **An inexact restoration derivative-free filter method for nonlinear programming** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Maria Salazar (IMPA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Contact Isotropic Realization of Jacobi Manifolds** ” in the Geometry special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Mariana Smit Vega Garcia (Heinrich Heine University – Dusseldorf)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **New developments in the lower dimensional obstacle problem** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Mario Henrique de Castro (Universidade Federal de Uberlândia)**

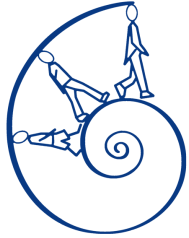
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Eigenvalues decay of positive integral operators** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Marisa de Souza Costa (UFU)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Um teorema do tipo Favard para os polinômios ortogonais no círculo unitário** ” in the Orthogonal Polynomials and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Matias del Hoyo (IMPA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On a Characterization of Vector Bundles** ” in the Geometry special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Max Leandro Nobre Gonçalves (UFG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Local convergence of Gauss-Newton method for injective-overdetermined systems of equations under a majorant condition** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**MESSAOUD BOUNKHEL (KING SAUD UNIVERSITY)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **DIRECTIONAL LIPSCHITZNESS OF MINIMAL TIME FUNCTIONS IN HAUSDORFF TOPOLOGICAL VECTOR SPACES** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Michael Macedo Diniz (IMECC/UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Aplicações dos sistemas P-fuzzy à problemas de biomatemática** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Millena Villar (UFU)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Detailed vortex shedding flow formation on complex geometries** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Miriam Telichevesky (UFRGS)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Minimal Graphs over Certain Unbounded Domains of Hadamard Manifolds** ” in the Geometry special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Moiseis dos Santos Cecconello (UFMT)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Análise qualitativa de soluções fuzzy em modelos de biomatemática** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Mustafa Bayram (Yildiz Technical University, Chemical and Metallurgy Faculty, Istanbul-Turkey)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Mathematical Approach to Metabolic Control Analysis** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Nelson Faustino (Unicamp)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Polinômios Ortogonais Discretos em Variável Hipercomplexa** ” in the Orthogonal Polynomials and Applications special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





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Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Omar Selim (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Adding pathological exhaustive submeasures** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Oscar Ocampo (UFBA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Conjugacy classes of torsion elements in the crystallographic group  $B_n=[P_n, P_n]$**  ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Pablo Blanco (LNCC)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On fluid-structure simulations in hemodynamics** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Pablo Carrasco (ICMC/USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Margulis' measure for center isometries** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Pablo Guarino (UFF)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Rigidity of critical circle maps** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Patrícia Cunha (FGV – SP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A multiplicity result for the Chern-Simons-Schrödinger equation with a general nonlinearity** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Patrícia Viana da Silva (UFU)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Análise Discrepante via Máxima Verossimilhança** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Paulo Jabardo (IPT-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Turbulência: escalas, semelhança e o papel do número de Reynolds** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Pedro Kaufmann (Unifesp)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Products of free spaces and applications** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Pedro Munari (Universidade Federal de São Carlos)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Técnicas de decomposição e o método de geração de colunas primal-dual para a obtenção de soluções ótimas de problemas de grande porte** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Pedro Resende (UNESP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Desenvolvimento de um modelo para a correlação das flutuações da velocidade e do tensor de conformação de fluidos FENE-P** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Pedro Tavares Paes Lopes (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Regularidade de problemas de contorno elípticos em espaços de Gelfand-Shilov** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Petrus H. R. dos Anjos (Universidade Federal de Goiás (UFG))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Zeons and Combinatorial identities** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Piotr Borodulin-Nadzieja (University of Wroclaw)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Measures on Suslinean spaces** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Rafael Braz Azevedo Farias (DEMA-UFC)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Parameter estimation and identifiability in multivariate binary models with skewed link functions** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Raimundo Bastos (UnB)**

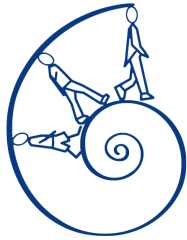
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On profinite groups with Engel-like conditions** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Raimundo Leitão (UFC)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Regularidade para equações integro-diferenciais totalmente não-lineares anisotrópicas** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Raphael de O. Garcia (UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Esquemas de Volumes Finitos aplicados em Magnetohidrodinâmica Ideal via Octave** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Raul Abreu de Assis (Universidade do Estado de Mato Grosso, Sinop-MT)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A synthetic model of evolution: an aspect space approach** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Regina Litz Lamblém (UEMS)**

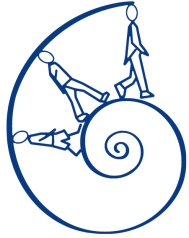
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Polinômios Para-ortogonais Associados aos Polinômios de Geronimus** ” in the Orthogonal Polynomials and Applications special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Renan Edgard Pereira Lima (ITA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Uma restrição do conjunto singular de estruturas genericamente simpléticas em espaços projetivos** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Renato Alessandro Martins (ICT - Unifesp)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Determination of the 2- cocycles for the three point witt algebra** ” in the Algebra special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Renato J. Gava (UFSCar)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **The martingale approach for the occurrence of words in i.i.d. trials** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Ricardo Alonso (PUC – RJ)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Boltzmann model for viscoelastic particles** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Ricardo Freire (IME/USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Some problems in stability** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Ricardo Mendes (WWU Münster)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Metrics with Strongly Positive Curvature on Flag Manifolds** ” in the Geometry special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Ricardo Miranda (UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Ciclos limite e alguns outros resultados sobre Sistemas Dinâmicos Descontínuos** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Roberto Andreani (IMECC/Unicamp)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On Second Order Optimality Conditions for Nonlinear Programming** ” in the Optimization special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Roberto Ausas (ICMC/USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **FINITE ELEMENT MODELING OF VISCOUS EFFECTS ON INEXTENSIBLE MEMBRANES** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Robson Figueiredo (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Between paracompactness and the D-property** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Rodrigo de Alencar Hausen (UFABC)**

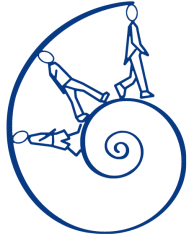
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **The Prism over Kneser Graphs is Hamiltonian** ” in the Discrete Mathematics and Combinatorics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Roger Behling (UFSC-Blumenau)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On the constrained error bound condition for nonlinear programming** ” in the Optimization special session.

São Paulo, 15th of December 2014.

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Rogério Gomes Alves (Universidade Federal de Ouro Preto (UFOP))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **The algorithmic Lovász Local Lemma and Hard Core lattice gas** ” in the Mathematical Physics and Ergodic Theory special session.

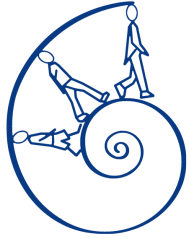
São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Rômulo Vermersch (UFRRJ)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Dinâmica topológica genérica sobre o espaço de cantor** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Ruben Edwin Lizarbe Monje (IMPA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Espaços projetivos com pesos e componentes irreduzíveis do espaço de folheações holomorfas de codimensão um** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Rubens de Figueiredo Camargo (UNESP (Campus Bauru))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Aplicação do cálculo fracionário em Biomatemática** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**S. Waleed Noor (Universidade de São Paulo)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Complex symmetry of composition operators** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Said Ali Algarni (King Fahd University of Petroleum & Minerals, Arábia Saudita)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Numerical Methods of Rational Form for Reaction Diffusion Equations** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Salimeh Yasaei Sekeh (UFSCar)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On dynamic weighted entropies** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Samara Kiihl (UNICAMP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Statistical methods for preprocessing, integration, and quality assessment of synthetic lethality data** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Samuel G. da Silva (UFBA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On the extent of separable, locally compact, selectively (a)-spaces** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Sandro Gallo (Universidade Federal do Rio de Janeiro (UFRJ))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Stochastic processes with long memory** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Santi Domenico Spadaro (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Selection principles and chain conditions** ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Sérgio Almaraz (UFF – RJ)**

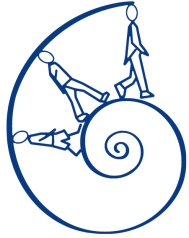
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A Positive Mass Theorem for asymptotically flat manifolds with a non-compact boundary** ” in the Partial Differential Equations special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Sergio Amat (U. P. Cartagena - Espanha)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Harten’s Multiresolution and Orthogonal Polynomials: A first relation** ” in the Orthogonal Polynomials and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Sérgio Tadao Martins (IME - USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **The cohomology ring of the sapphires that admit the Sol geometry** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Silas L. Carvalho (Universidade Federal de Minas Gerais (UFMG))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Quasiballistic and quasilocalized Schrödinger operators are generic** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Simone Marchesi (Unicamp)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Fibrados  $p$ -Buchsbaum de posto 2 sobre o espaço proveito** ” in the Algebra special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Simone Vasconcelos da Silva (Universidade Federal de Goiás (UFG))**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Phase Transition in a Bidimensional Random Polymers Model** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Sônia Cristina Poltroniere Silva (Universidade Estadual Paulista)**

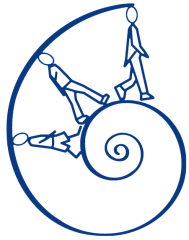
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Modelagens Matemáticas para o Problema Integrado de Corte de Estoque e Dimensionamento de Lotes em Indústrias de Papel** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Teófilo Nascimento (UNEB)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Propriedades estatísticas da medida de máxima entropia para atratores parcialmente hiperbólicos** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Thaís C. O. Fonseca (UFRJ)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Dynamic Multiscale Spatiotemporal Models for Poisson Data** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Thaís Jordão (Universidade de São Paulo)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Estimates for Fourier sums and eigenvalues of integral operators via multipliers on the sphere** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Thaís Maria Dalbello (USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Toric Surfaces, Euler obstruction and applications** ” in the Singularities and Foliations special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Thais V. Paiva (UFMG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Imputation of multivariate continuous data with nonignorable missingness** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Thiago Bomfim (UFBA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Análise multifractal de conjuntos irregulares para medidas Gibbs faco** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Thiago Catalan (UFU)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Propriedades mixing para dinâmicas genéricas e robustas** ” in the Dynamical Systems special session.

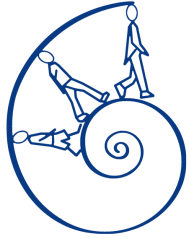
São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Tiago de Moraes Montanher (IME-USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Global estimation of Hidden Markov models using interval arithmetic** ” in the Mathematical Methods in Probability and Statistics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Tiago Rodrigues Macedo (ICT - Unifesp)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Characters of certain finite-dimensional modules for hyper current algebras** ” in the Algebra special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Tiara Martini (Universidade Estadual de Campinas)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Interior point strategy for solving feasibility problems with complementarity constraints** ” in the Operations Research special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Toshimichi Usuba (Kobe University)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Large Lindelöf spaces with points  $G\delta$**  ” in the Set Theory, Topology and Banach Spaces special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Vanessa Paschoa Ferraz (UNIFESP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Cálculo aproximado de somas por fórmulas de quadratura de Gauss** ” in the Orthogonal Polynomials and Applications special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Vinícius Bittencourt (IME - USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A characterization of non-matrix varieties for Jordan and alternative algebras** ” in the Algebra special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Vinícius Vieira Fávaro (Universidade Federal de Uberlândia)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Espaçabilidade em espaços de seqüências** ” in the Functional Analysis, Approximation and Applications special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Viviane Ribeiro Tomaz da Silva (UFMG)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **On  $Z_2$ -graded identities of  $UT_2(E)$**  ” in the Algebra special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee







I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Wellington Oliveira (IMPA)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Nonsmooth optimization methods for chance constrained programming** ” in the Optimization special session.

São Paulo, 15th of December 2014.

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





I Congresso Brasileiro de  
Jovens Pesquisadores em  
Matemática Pura e Aplicada



IME-USP

I hereby certify that

**Wellington C. de Jesus (IME/USP)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A 3D front-tracking approach for simulation of a two-phase fluid with ferrofluid and an insoluble surfactant** ” in the Biomathematics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Wellington Jesus (UFU)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **A 3D front-tracking approach for simulation of a two-phase fluid with insoluble surfactant** ” in the Numerical Analysis and Computational Fluid Dynamics special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Wioletta Ruszel (Technische Universiteit Delft)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **How do we know that the creations of worlds are not determined by falling grains of sand?** ” in the Mathematical Physics and Ergodic Theory special session.

São Paulo, 15th of December 2014.

---

Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee





# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**Yuri Ki (UFF)**

attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Ciclos heterodimensionais robustos** ” in the Dynamical Systems special session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
On behalf of the Organizing Committee

