



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



**IME-USP**

I hereby certify that

**Ademar Marques Lacerda Filho (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 Linear Algebra Library On Gpu For Interval Arithmetic Operations** ” in the posters 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 Sueke Takata (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 “ **Método Smoothed Particle Hydrodynamics** ” in the posters 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

**Aline Aparecida de Carvalho Gonçalves (CEFET-MG)**

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 “ **Resolução Do Problema De Roteamento De Veículos Com Coleta E Entrega e Janela De Tempo Via Metaheurística Iterated Local Search Com Buscalocal Em Vizinhança Variável** ” in the posters 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

**Allana Sthel Santos de Oliveira (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 “ **Determinando O Espectro De Um I-Grafo** ” in the posters 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

**Amanda da Costa Vasconcelos (CEFET-MG)**

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 “ **Crescimento Polinomial Das Codimensões** ” in the posters 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 Pimentel Paiva (UFC)**

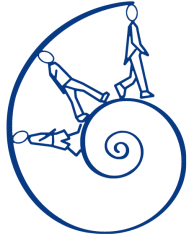
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Formula de Euler para poliedros convexos e Homologia simplicial** ” in the posters 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 Caroline Pierini (UFSM)**

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 Proposta De Modelagem Matemática Por Meio De Sistemas Baseados Em Regras Fuzzy Inspirada No Modelo De Malthus Discreto** ” in the posters 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 Paula Chorobura (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 “ **Condições Necessárias De Otimalidade: Abordagem Através Do Formalismo De Dubovitskii-Milyutin** ” in the posters 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

**André Ottenbreit (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 “ **Paracompactness Of Countable Box Products** ” in the posters 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

**Angelina C. de Oliveira (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 “ **Comportamento assintótico dos autovalores de operadores integrais positivos via módulos de suavidade** ” in the posters 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

**Augusto Cesar Pereira (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 “ **Leilão Multiperíodo Para Mercados Pool De Energia Com Metas Energéticas De Médio E Longo Prazo** ” in the posters 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

**Bruno Felipe De Jesus Oliveira (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 “ **Estudo Da Estimação Da Variância Wavelet** ” in the posters 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 Henrique Chrisóstomo Mendonça (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 “ **Soluções Geodésicas Para A Combinação De Várias Técnicas Geodésicas** ” in the posters 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 J. Milani (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 “ **Simulação 3D Da Difusão De Íons Férricos Em Dosímetros Fricke- Gel Com Coeficiente De Difusão Variável** ” in the posters 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

**Camila Isoton (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 “ **Convexidade Generalizada: Condições De Otimalidade E Dualidade** ” in the posters 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 Camacho Junior (ND)**

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 “ **O Uso De Ferramentas Tecnológicas Na Educação Matemática** ” in the posters 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

**Caroline Viezel (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 “ **Uma Estratégia Numérica Para Escoamentos Viscoelásticos com Escorregamento Na Parede** ” in the posters 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

**Charles de Souza Amaral (CEFET-MG)**

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 “ **Percolação De Palavras** ” in the posters 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

**Charles F. dos Santos (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 “ **Polinômios De Szegő E O Problema Do Momento Trigonométrico** ” in the posters 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

**Cintia Silva Scanholato (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 “ **Introdução Aos Fibrados Principais** ” in the posters 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

**Clayton Suguio Hida (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 “ **An Ostaszewski Space By Means Of Boolean Algebras** ” in the posters 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 Schmidt (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 Study Of Hereditary Categories With Tilting Object** ” in the posters 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

**Dahisy Lima (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 “ **Dynamics associated to Spectral Sequences** ” in the posters 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

**Daisy Paes Silva (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 “ **Função Penalidade Baseada Na Função Onda Triangular Para O Tratamento Das Variáveis Discretas Do Problema De Fluxo De Potência Ótimo** ” in the posters 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

**Dalton Couto Silva (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 “ **Uma Decomposição Das Álgebras De Lie Semi-Simples Em Ideais Simples** ” in the posters 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

**Daniele C. R. Gomes (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 “ **Existência, Unicidade E Simulação Numérica De Solução Para Uma Equação De Schrödinger Não Linear Com Fronteira Móvel** ” in the posters 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

**Diego Marcon (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 “ **A quantitative Log-Sobolev inequality for a two parameter family of functions** ” in the posters 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

**Diego Otero (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 “ **Geometria Do Cálculo Das Variações - Linearização E Projetivização** ” in the posters 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

**Eder de Moraes Correa (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 “ **Teoria De Lie E Geometria Simplética** ” in the posters 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

**Edgardo Perez (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 Large Deviation Principle For The Gibbs States On Countable Markov Shifts With The Bip Property: The Zero Temperature Case.** ” in the posters 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

**Eduardo Böer (UFSM)**

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 “ **Funcionais Lineares: Espaço Dual E Anuladores** ” in the posters 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

**Eloisa M. S. Tampieri (CEFET-MG)**

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 “ **Simulação Computacional Para O Comportamento De Oviposição Do Aedes Aegypti Em Semi-Campo** ” in the posters 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

**Eloiza do Nascimento Fazinazzo (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 “ **Zeros Reais De Polinômios Palindrômicos** ” in the posters 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

**Ewerton Rocha Vieira (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 “ **Detecting Bifurcations via Conley Index Theory** ” in the posters 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

**Fabiane Aprício do Nascimento (IFRJ)**

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 De Algoritmos Genéticos Para A Otimização De Funções Matemáticas** ” in the posters 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

**Flávio Guilherme de Abreu Drumond (UFV)**

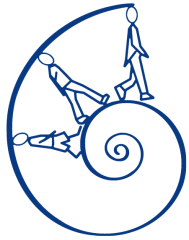
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Sístoles de superfícies gerada pela tesselação  $\{8g - 4, 4\}$**  ” in the posters 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

**Gabriela Yoneda (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 “ **Simplicidade De  $L_{\{K\}}(E)$**  ” in the posters 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

**Gabriella Akemi Miyamoto (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 Geometricamente Uniformes Para Codificação De Rede** ” in the posters 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

**Gerard John Alva Morales (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 “ **Sobre Estabilidade De Equilíbrios De Sistemas Hamiltonianos** ” in the posters 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

**Glelson P. Marques (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 “ **Teorema Global De Quine Para Aplicações Entre Superfcies** ” in the posters 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

**Heloisa L. Sousa (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 “ **Um Estudo Sobre A Equação De Schrödinger Biharmônica** ” in the posters 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

**Irvin Pérez Morales (Universidad Central Marta Abreu de Las Villas)**

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 “ **Generalization of advancing front particle packing algorithms** ” in the posters 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

**Jéssica Antonio Delgado (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 “ **O Método Da Função Barreira E Barreira Modificada Para Resolução De Problemas De Otimização Não Linear** ” in the posters 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

**Jessica Ventura da Silva (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 Regra De Sinais De Descartes E A Matemática Financeira** ” in the posters 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

**João Tiago Assunção Gomes (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 “ **Aubry Set For Asymptotically Sub-Additive Potentials** ” in the posters session.

São Paulo, 15th of December 2014.

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Prof. Dr. Pedro da Silva Peixoto  
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# I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada



**IME-USP**

I hereby certify that

**João Vitor da Silva (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 “ **Regularity Of Flat Solutions To Fully Nonlinear Parabolic Equations** ” in the posters 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

**Jonas A. Padovani Ederli (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 De Soluções Para Uma Equação De Schrödinger Com Perturbação Singular** ” in the posters 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

**Jorge Luis Crisostomo Parejas (ICMC)**

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 Transversas E Estados De Equilíbrio** ” in the posters 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 Valencia Alvites (ICMC)**

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 “ **Rigorous Results On The Particle Spectrum Of Lattice Quantum Chromodynamics Models In The Strong Coupling Regime** ” in the posters 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

**José Santana Campos Costa (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 “ **Transitividade e Classes Homoclínicas** ” in the posters 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

**Joyce Aline Duarte Dobler (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 “ **Segmentação De Texturas Utilizando Wavelets Diádica E Starlet** ” in the posters 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

**Juliane Golubinski Capaverde (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 “ **GrObner Bases Of Generic Ideals** ” in the posters 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

**Junior A. Pereira (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 “ **Propriedades De Uma Classe De Polinômios Palindrômicos** ” in the posters 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 K. Kashimoto (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 “ **Decomposições De Cartan** ” in the posters 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

**Leticia Marques de Holanda (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 “ **Teorema De Frobenius** ” in the posters 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

**Lillia dos S. Barsante (CEFET-MG)**

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 Modelo Entomológico Com Influência Da Pluviosidade Para O Vetor Da Dengue** ” in the posters session.

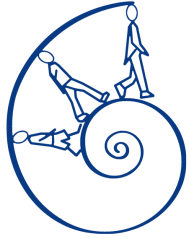
São Paulo, 15th of December 2014.

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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

**Lineia Schutz (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 “ **A Supnorm Version Of Leray'S Conjecture** ” in the posters 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 Mafalda Elias de Assis (FACET)**

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 Modelo De Interação De Diferentes Níveis De Seleção Natural: Dna Egoísta-Célula** ” in the posters 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 Y. Tsuchiya (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 “ **Direções Aproximadas Em Métodos De Pontos Interiores** ” in the posters 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 Doin (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 “ **Colorindo Planos Projetivos Finitos Via Método Mágico de Erdős** ” in the posters 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 Gustavo Soares da Silva (UEL)**

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 “ **Maximização Do Valor De Mercado Por Uma Firma Com Custos De Ajustamento** ” in the posters 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

**Mailde da Silva Ozório (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 Transformada De Laplace Aplicada À Cinética Reversível De Três Componentes** ” in the posters 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

**Mansur Hassan (Northwest University, Kano)**

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 “ **Fuzzy Linear Programming For Supply Chain Management In Steel Company** ” in the posters 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

**Marcel Bertolini (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 “ **Generalized Pseudo-Anosov Homeomorphisms, Paper Spaces And 3-Dimensional Geometry** ” in the posters 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 Aparecido Cabral Nogueira (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 “ **O Problema De Yamabe** ” in the posters 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

**Marciano Pereira (UEPG)**

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 “ **Impenetrability Of Aharonovbohm Solenoids: Proof Of Norm Resolvent Convergence** ” in the posters 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

**Marco Alexandre Claudino (IME/USP)**

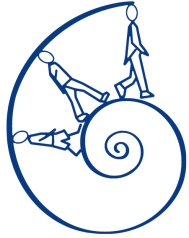
attended the I Brazilian Congress of Young Researchers in Pure and Applied Mathematics, held from 10th to 12th of December 2014 at the Institute of Mathematics and Statistics, University of São Paulo, São Paulo, Brazil, presenting the work entitled “ **Estimativas Residuais Em Elementos Finitos: Aplicações Em Elasticidade Linear** ” in the posters 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

**Marcos Pinheiro de Lima (UFPel)**

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 “ **Homogeneização Assintótica Da Equação De Onda Sobre Meios Unidimensionais Microperiódicos Continuamente Heterogêneos** ” in the posters 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

**Marlon Jeske (FURB)**

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 “ **Conjuntos Aproximativos Na Análise Econômico-Financeira De Empresas - Uma Leitura Multicritério Da Resource Advantage Theory** ” in the posters 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

**Matheus Santos (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 “ **Comportamento Assintótico Para Uma Equação De Meios Porosos Com Pressão Fracionária** ” in the posters 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

**Matthew Bennett (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 “ **Character Formulae And A Realization Of Tilting Modules For  $Sl_2[T]$**  ” in the posters 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

**Mauricio Barbosa da Silva (UEL)**

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 Potência Fracionária Do Laplaciano** ” in the posters 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

**Mayk Coelho (UNIFAL)**

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 De Pontos Interiores Com Barreira Logarítmica Modificada** ” in the posters 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

**Mazílio Coronel (FACET)**

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 Modelo De Interação De Diferentes Níveis De Seleção Natural: Indivíduo-População** ” in the posters 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

**Michel Gaspar (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 “ **What If We Want Every Set Of Reals To Be Measurable?** ” in the posters 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

**Mustapha Mohammad (Northwest University, Kano)**

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 Exponenciated Burrxii-Poisson Distribution And Its Application** ” in the posters 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

**Nelson Antonio Silva (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 “ **On The Length Index Of Mod  $P$ -Cohomology Spheres** ” in the posters 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 Assis (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 “ **The problem of quasi-integrability** ” in the posters 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 S. HUERTAS (ICMC)**

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 “ **Attractors For A Nonlinear Viscoelastic Equation With Memory** ” in the posters 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

**Pedro Roberto de Lima (UEL)**

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 Estabilidade De Solução Global Para Um Sistema De Bresse Termoelástico Não Linear** ” in the posters 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

**Rafael Gutierrez Castanha (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 “ **Método Level Set: Aplicação Na Segmentação De Imagens Digitais** ” in the posters 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

**Rafael Ramos de Souza (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 “ **Método Primal-Dual De Pontos Interiores E Exteriores Em Problemas De Fluxo De Potência Ótimo Com Os Taps Variando Continuamente** ” in the posters 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

**Renan Brito Butkeraites (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 “ **Otimização Quadrática Aplicada Ao Problema De Classificação De Tumores** ” in the posters 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 da Silva Santos (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 “ **Geometria Enumerativa via Invariantes de Gromov-Witten** ” in the posters 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

**Renata Naginma Imada (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 “ **Classificação De Contornos De Telhado De Edifício Com Base Nos Momentos De Zernike** ” in the posters 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

**Rian Penachi (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 “ **O Uso De Perturbações Em Problemas Simétricos De Otimização Não Linear** ” in the posters 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

**Rodrigo Andrade (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 “ **Hyperbolic Billiards With Nearly Flat Focusing Boundaries** ” in the posters 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

**Rodrigo Brito (IFMG)**

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 “ **Eficiente Heurística Para O Projeto De Redes Eixo-Raio Com Alocação Simples** ” in the posters 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

**Rodrigo Candido Faria (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 Brief Review Of Some Probability Interpretations** ” in the posters 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

**Ruana Maíra Schneider (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 “ **Método De Máximo Declive Com Diferentes Comprimentos De Passo** ” in the posters 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

**Rubayyi Alqahtani (University of Dammam, Saudi Arabia.)**

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 model of the wastewater treatment processes: Contois growth kinetics** ” in the posters 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

**Samuel Augusto Wainer (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 “ **Uma Abordagem Usando O Fibrado De Clifford Sobre Geometria Extrínseca De Uma Subvariedade Relacionada Com A Equação De Einstein** ” in the posters 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

**Thais Gama de Siqueira (UNIFAL-MG)**

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 políticas operativas baseadas em programação dinâmica no planejamento da operação energética de médio prazo** ” in the posters 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

**Thayze D'Martin Costa da Silva (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 “ **Princípio Do Equivalente Certo No Planejamento Da Operação Energética De Sistemas Hidrotérmicos** ” in the posters 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

**Vinicius Capelari Martins (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 condição menos exigente que garante a existência de multiplicadores de Lagrange** ” in the posters 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

**Vinícius Lourenço da Rocha (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 “ **Determinação e Classificação do Espectro de Alguns Operadores Lineares** ” in the posters 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



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I hereby certify that

**Wállef Januário Pereira da Silva (CPAR)**

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 Método De Funções Geradoras Na Solução De Relações De Recorrência** ” in the posters 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

**Welton T. M. de Sousa (IFMG)**

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 “ **Modelagem Computacional Do Problema De Roteamento De Veículos Com Janela De Tempo Via Biased Random Key Genetic Algorithm** ” in the posters 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

**Willian Pereira Nunes (UNIFEI)**

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 Para Caracterização De Centros Nilpotentes** ” in the posters session.

São Paulo, 15th of December 2014.

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

