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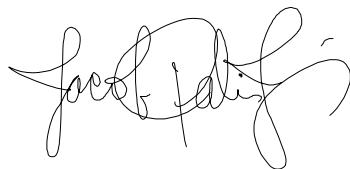
1<sup>st</sup> Indo-Brazilian

IMPA, Rio de Janeiro, Brazil  
July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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गणित

We certify that **Abramo Hefez** - *Universidade Federal Fluminense* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work:  
*“Singularities of analytic plane curves”*

Rio de Janeiro, July 31, 2008.



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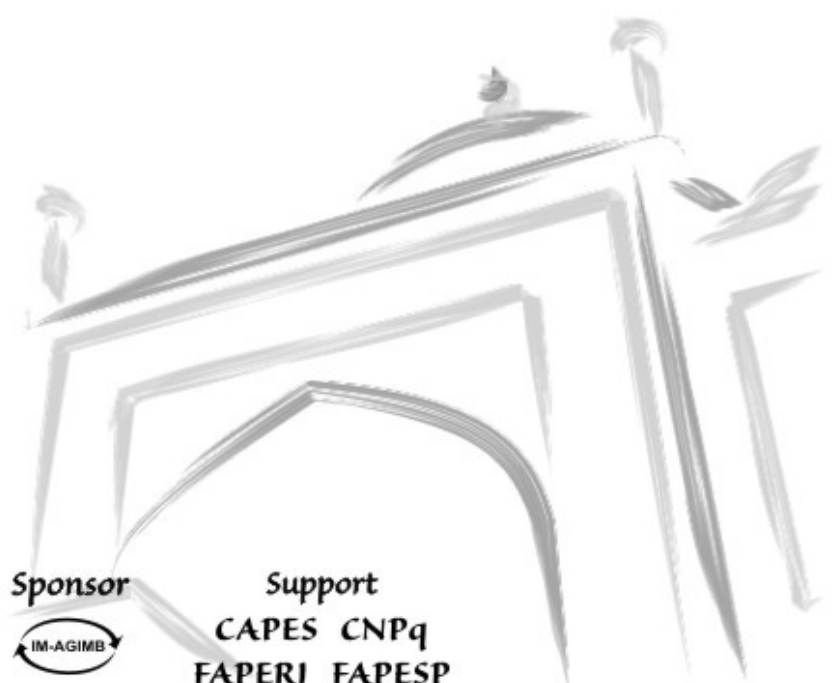
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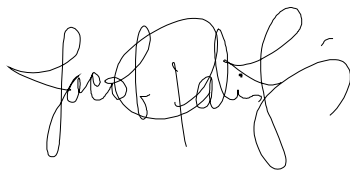
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We certify that *Adimurthi - Tata Institute of Fundamental Research* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Hardy Soblev Rellich Inequalities*”

Rio de Janeiro, July 31, 2008.



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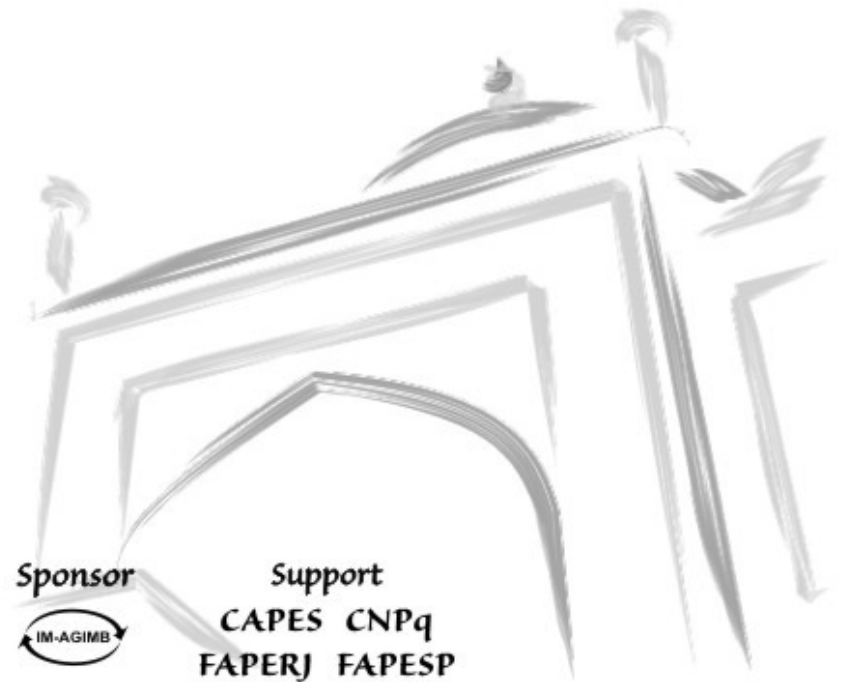
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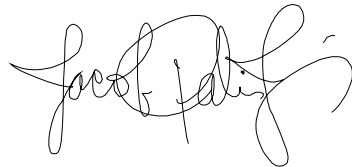
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We certify that **Antar Bandyopadhyay** - *Indian Statistical Institute, Delhi Centre* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Annealed and Quenched IP for Random Walk in Dynamic Markovian Environment”*

Rio de Janeiro, July 31, 2008.



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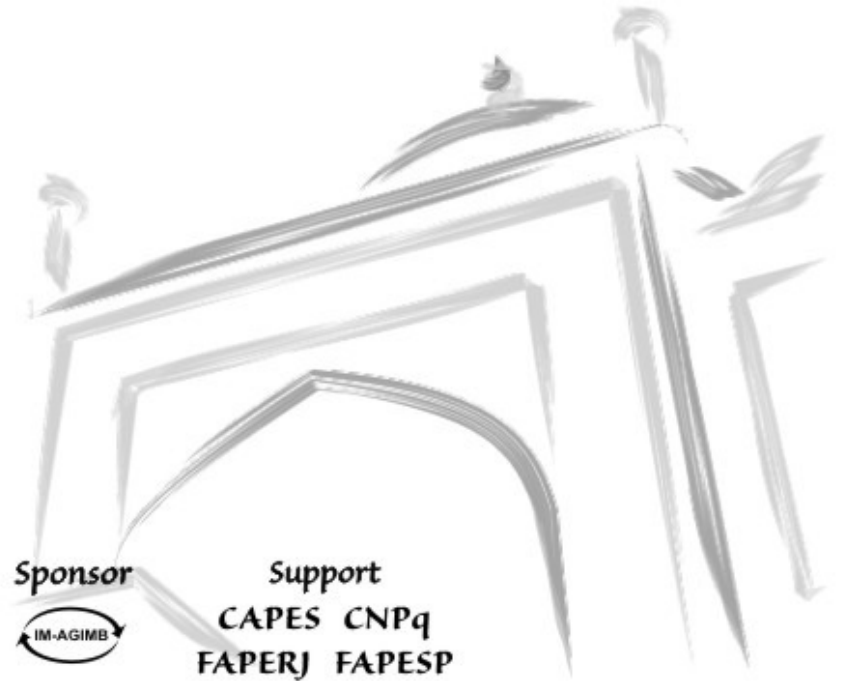
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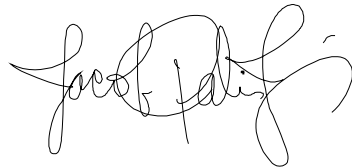
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We certify that **Antonio Roberto da Silva** - *Universidade Federal do Rio de Janeiro* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Modified symplectic structures in cotangent bundles of Lie groups*”

Rio de Janeiro, July 31, 2008.



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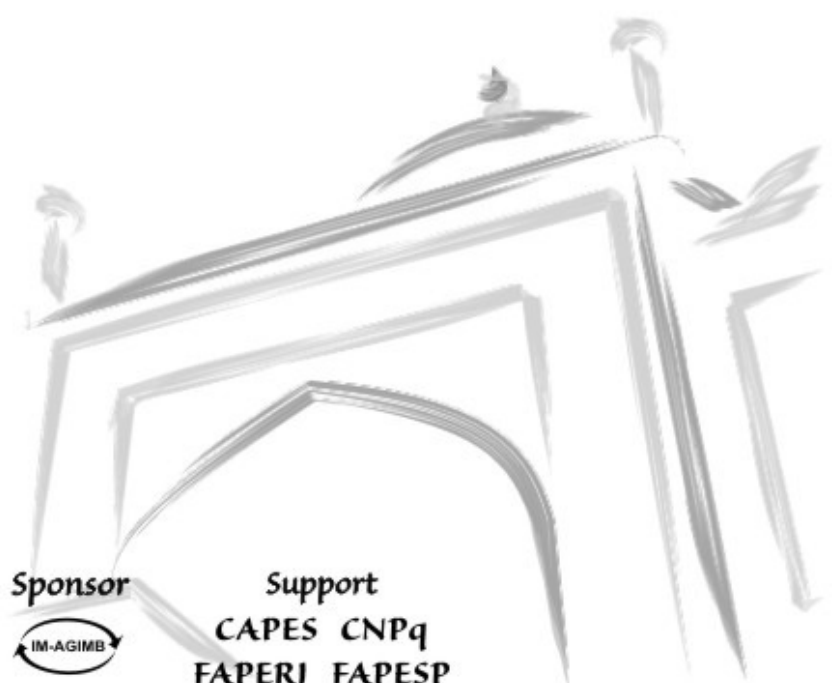
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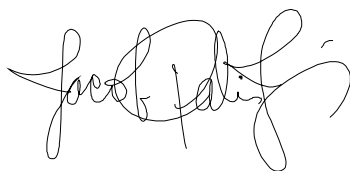
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July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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We certify that **Arnaldo Leite Pinto Garcia** - *Instituto Nacional de Matemática Pura e Aplicada* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“On curves and towers over finite fields”*

Rio de Janeiro, July 31, 2008.



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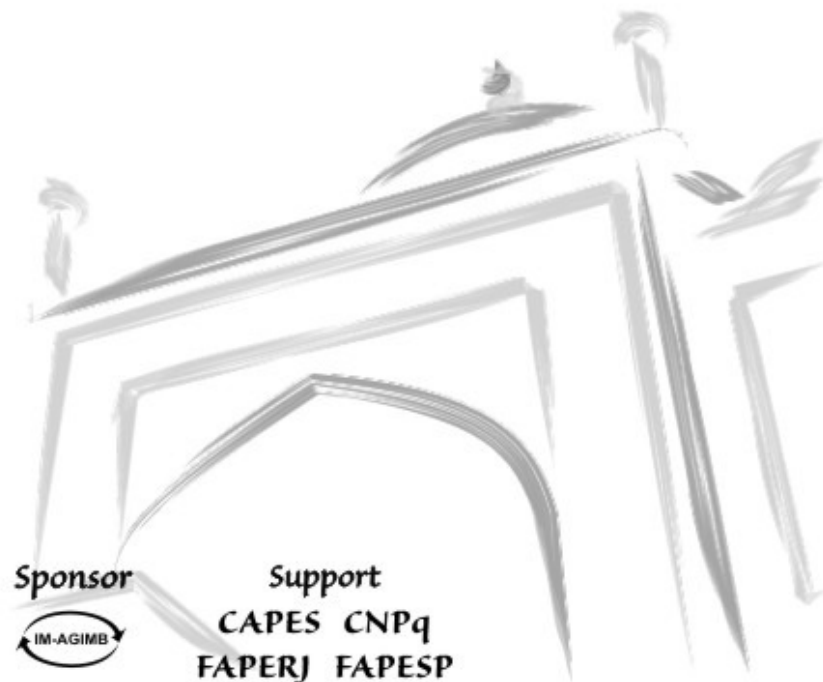
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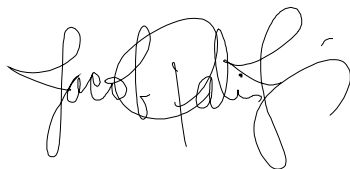
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July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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We certify that **Aron Simis** - *Universidade Federal de Pernambuco* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work:  
*“Cotas para a multiplicidade da fibra central”*

Rio de Janeiro, July 31, 2008.



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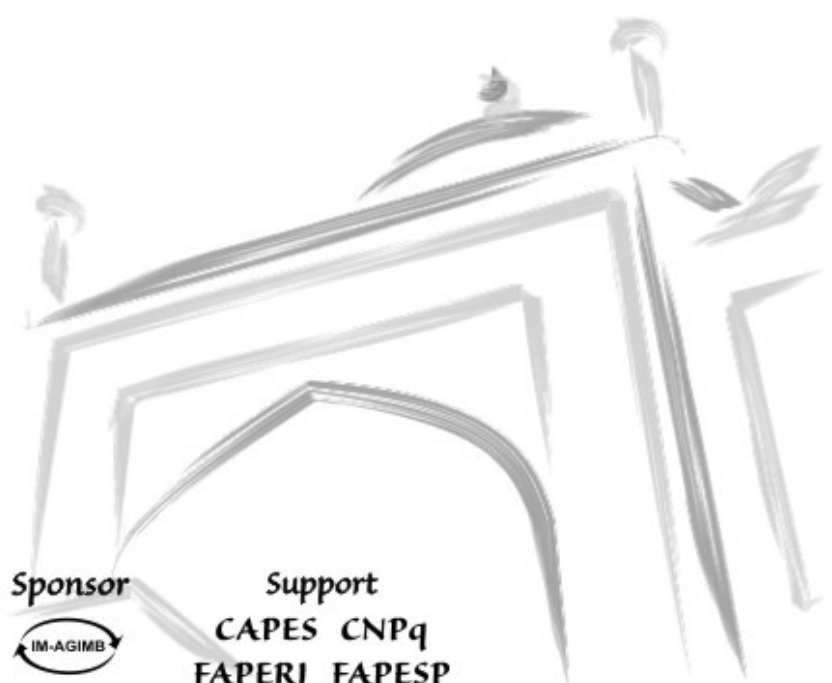
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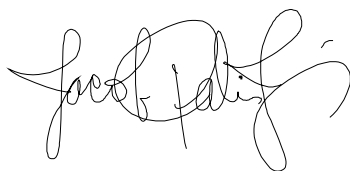
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We certify that **Artur Avila** - *Univ. Pierre et Marie Curie* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Spectral gap for the  $SL(2, R)$  action in moduli space*”

Rio de Janeiro, July 31, 2008.



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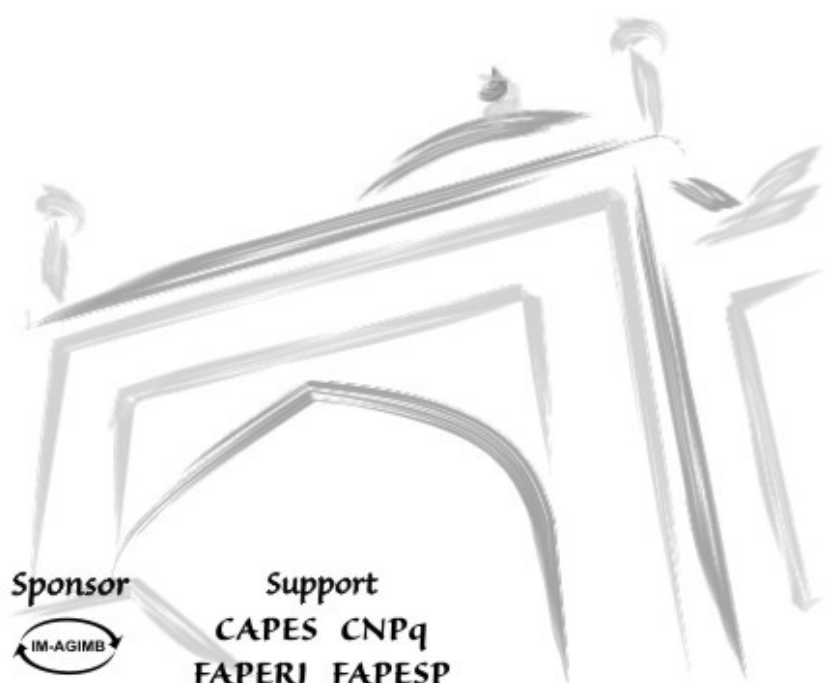
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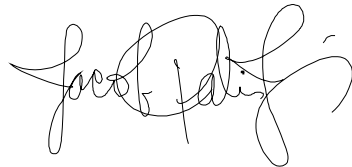
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We certify that Artur Oscar Lopes - *Universidade Federal do Rio Grande do Sul* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Ergodic Optimization: Maximizing Probabilities, Subactions and L.D.P for Gibbs Probabilities”*

Rio de Janeiro, July 31, 2008.



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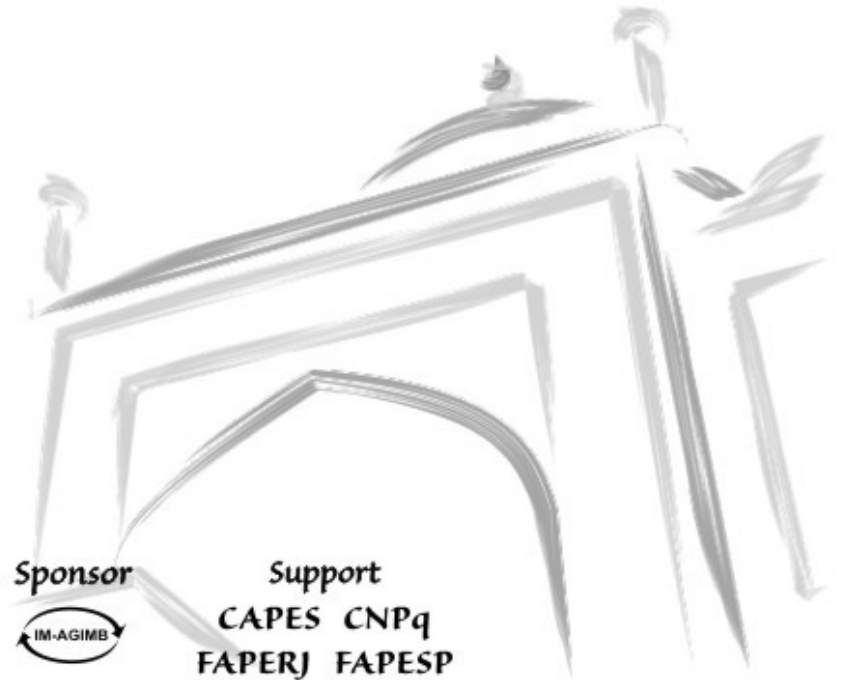
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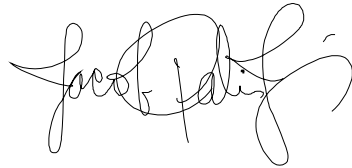
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We certify that **B V Rajarama Bhat** - *Indian Statistical Institute, Bangalore Centre* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Quantum dynamical semigroups and tensor product systems of Hilbert spaces*”

Rio de Janeiro, July 31, 2008.



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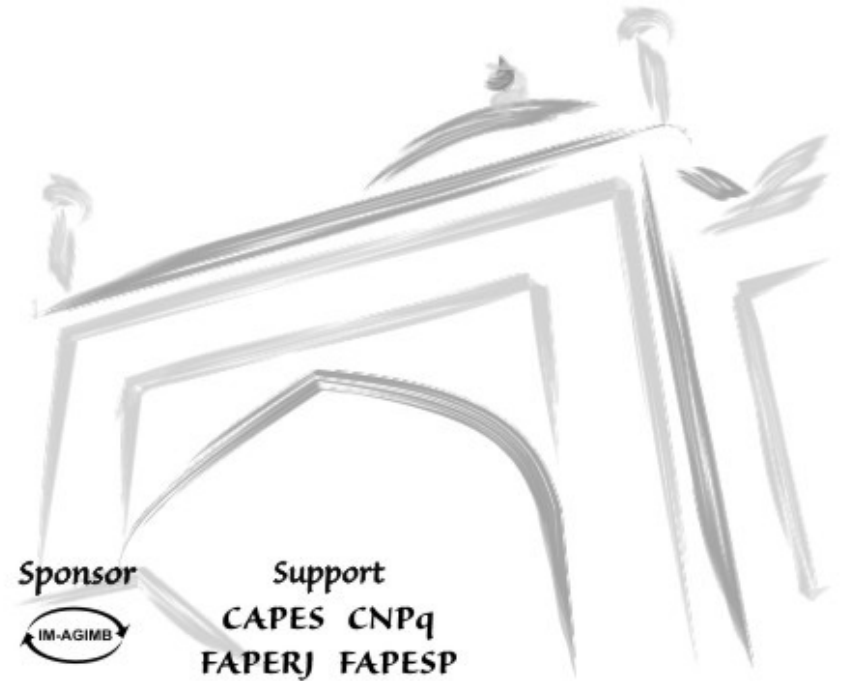
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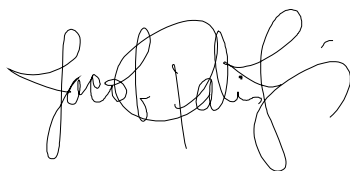
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We certify that **Carlos Tomei** - *Pontifícia Universidade Católica do Rio de Janeiro* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Global geometry of some differential operators*”

Rio de Janeiro, July 31, 2008.



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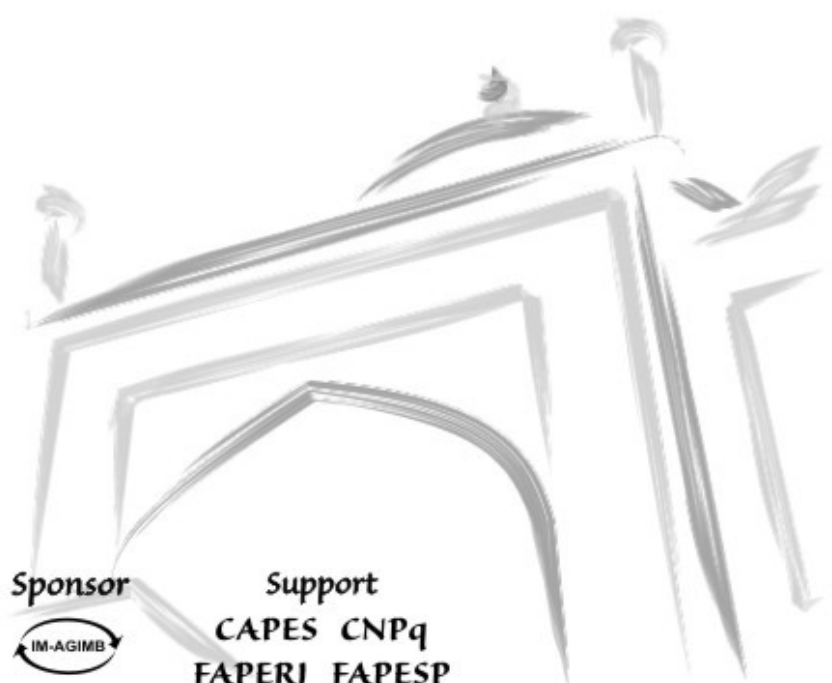
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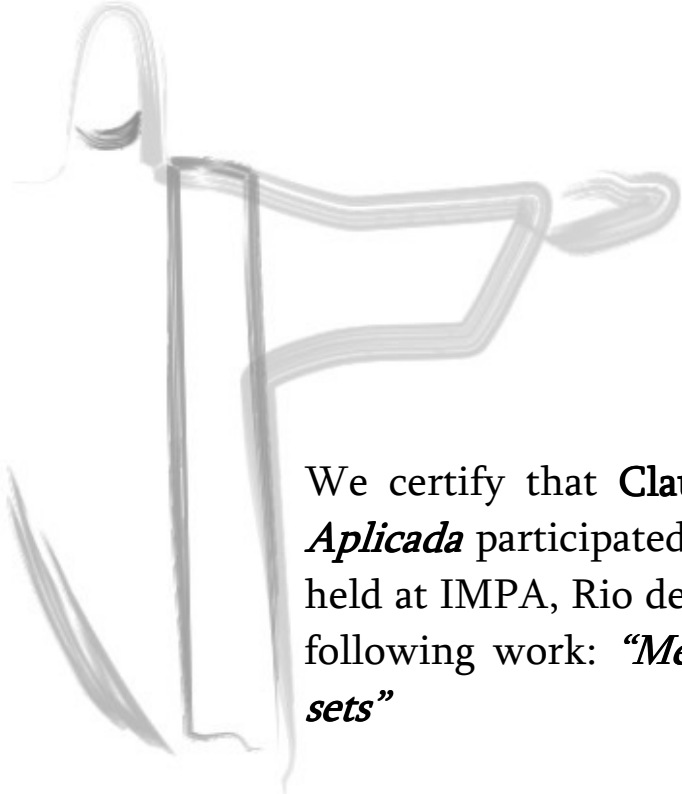


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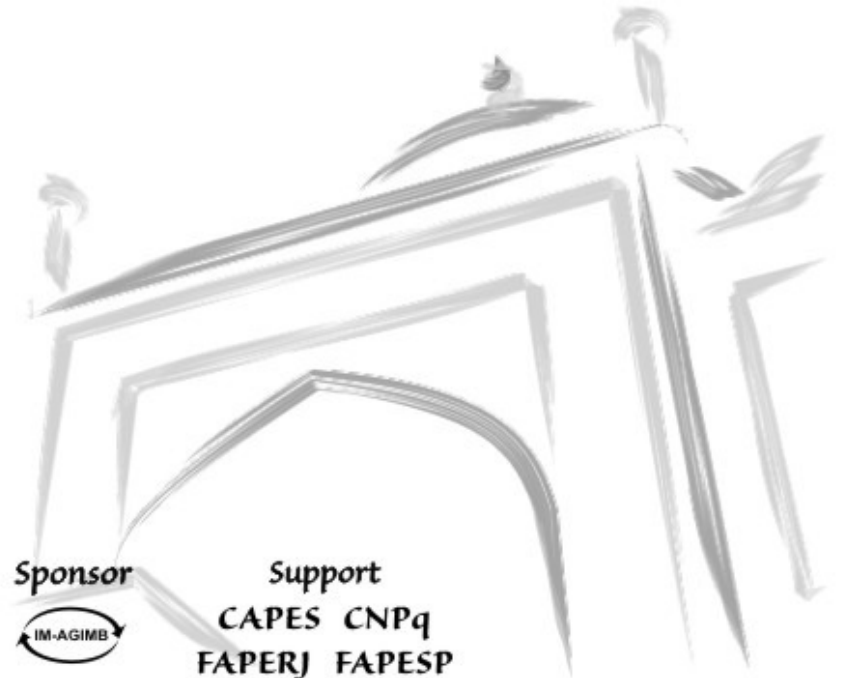
IMPA, Rio de Janeiro, Brazil  
July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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We certify that **Claudio Landim** - *Instituto Nacional de Matemática Pura e Aplicada* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Meta-stability and condensed zero-range processes on finite sets*”

Rio de Janeiro, July 31, 2008.

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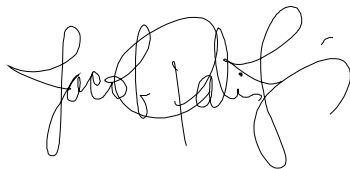
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IMPA, Rio de Janeiro, Brazil  
July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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We certify that **Djairo Figueiredo** - *Universidade Estadual de Campinas* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“On a class of semilinear elliptic systems”*

Rio de Janeiro, July 31, 2008.



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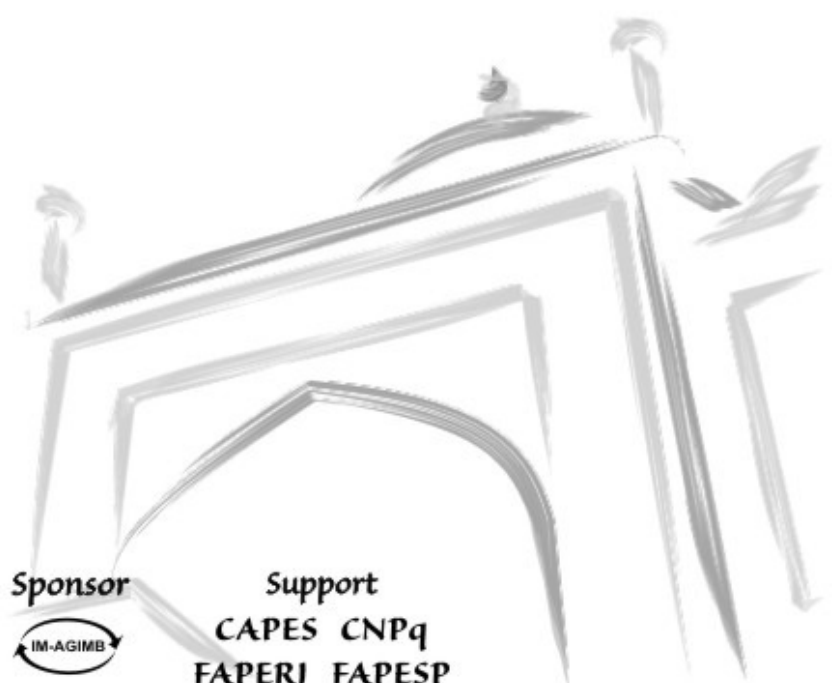
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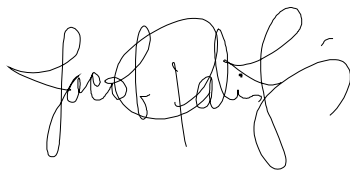
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We certify that **Eduardo Esteves** - *Instituto Nacional de Matemática Pura e Aplicada* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“The  $n$ th power maps of the compactified Jacobian”*

Rio de Janeiro, July 31, 2008.



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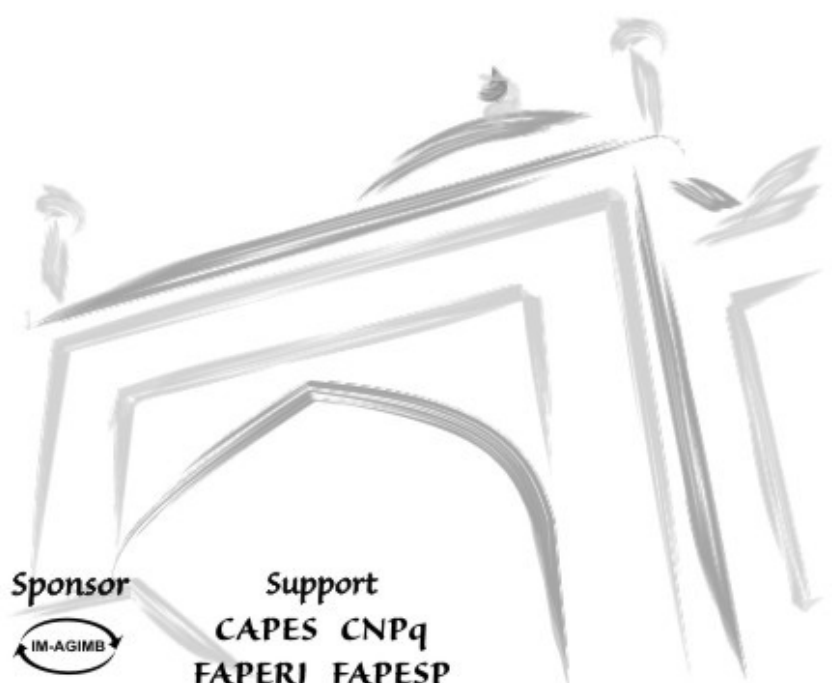
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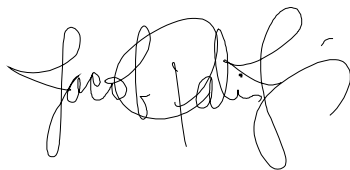
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We certify that **Francisco Odair Vieira de Paiva** - *Universidade Estadual de Campinas* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Asymptotically linear elliptic systems*”

Rio de Janeiro, July 31, 2008.



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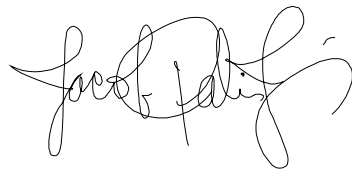
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We certify that **Gadadhar Misra** - *Indian Institute of Science* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work:  
*“Homogeneous operators”*

Rio de Janeiro, July 31, 2008.



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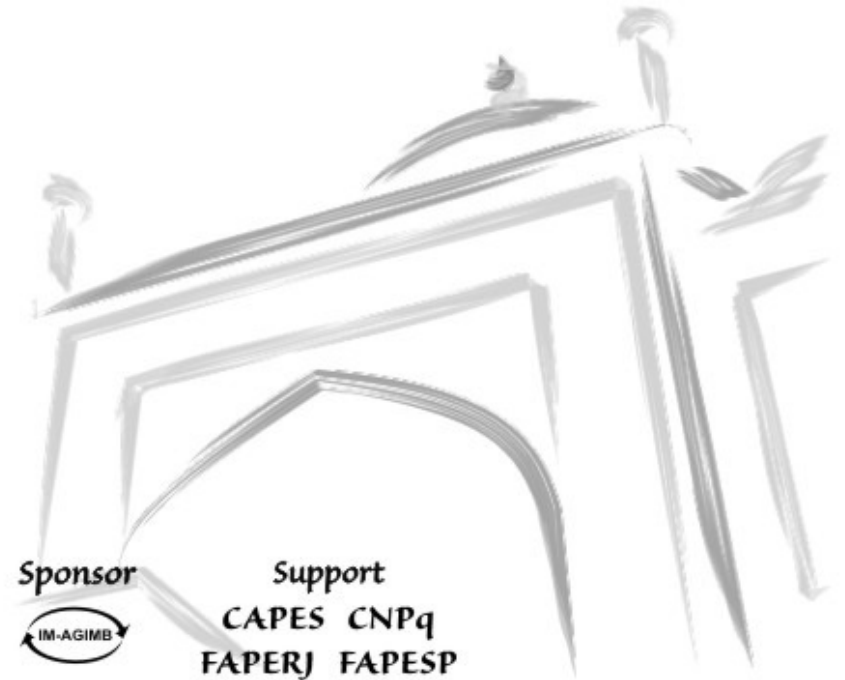
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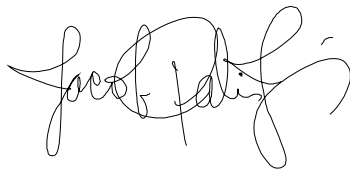
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We certify that **Govindan Rangarajan** - *Indian Institute of Science* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work:  
*“Time Series Analysis Using Non-parametric Granger Causality”*

Rio de Janeiro, July 31, 2008.



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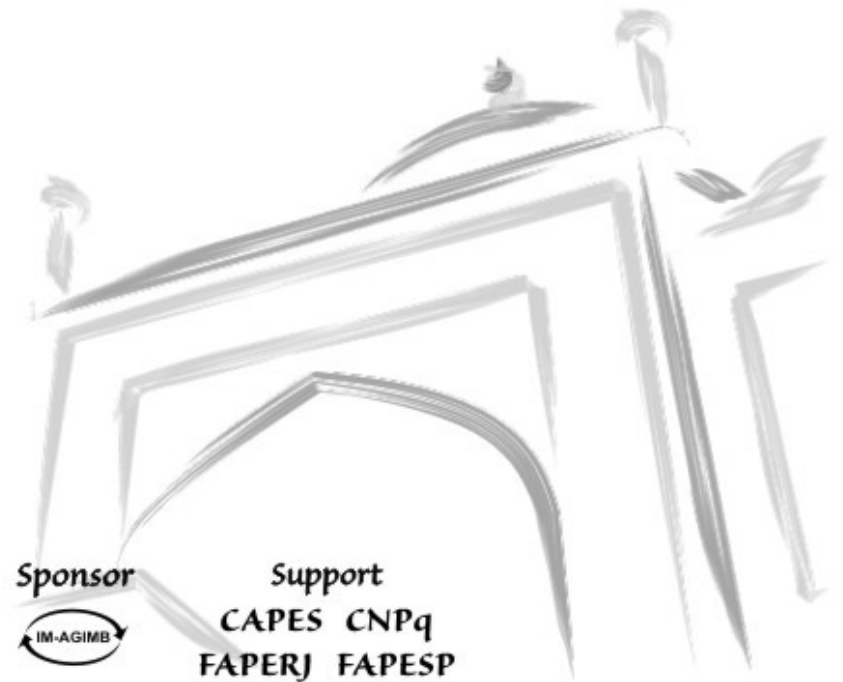
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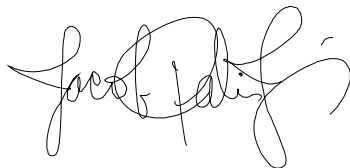
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We certify that **Hermano Frid** - *Instituto Nacional de Matemática Pura e Aplicada* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Homogenization in Ergodic Algebras with Applications to Nonlinear Partial Differential Equations”*

Rio de Janeiro, July 31, 2008.



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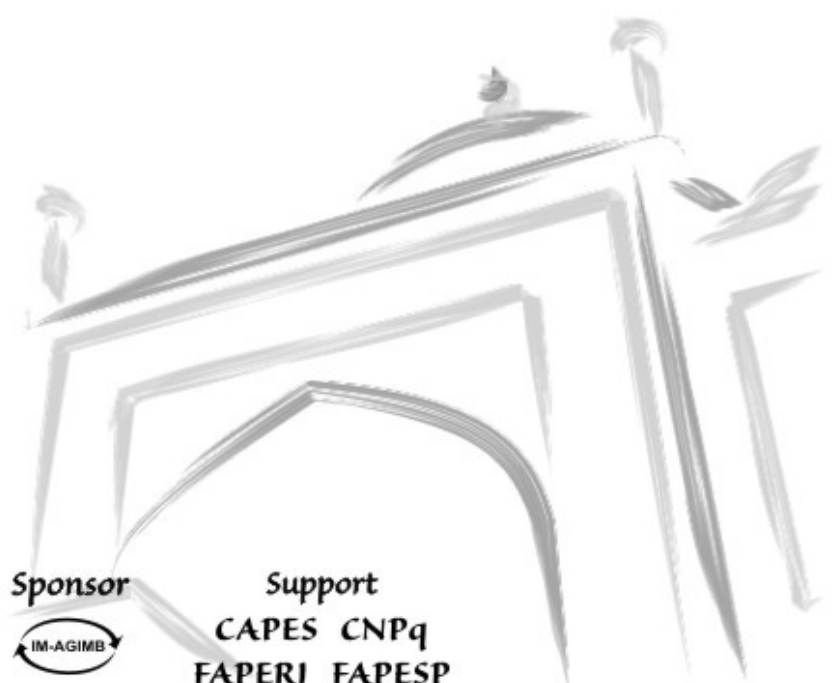
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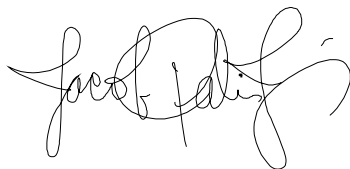
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We certify that **Israel Vainsencher** - *Universidade Federal de Minas Gerais* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Revisiting Cerveau-Lins components”*

Rio de Janeiro, July 31, 2008.



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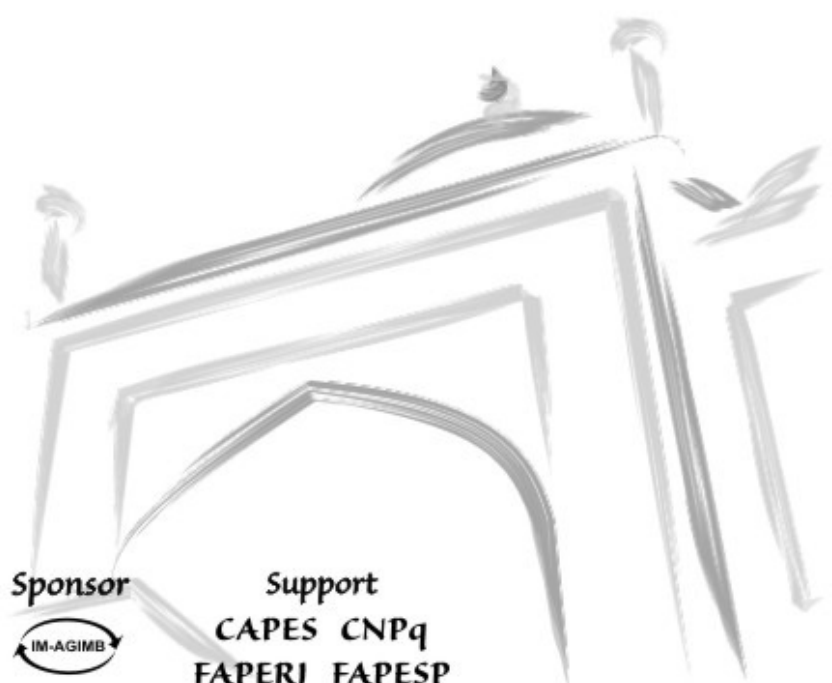
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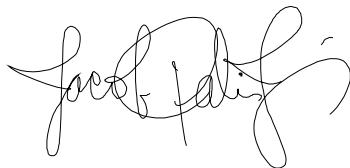
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We certify that João Marcos Bezerra do Ó - *Universidade Federal da Paraíba - João Pessoa* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*On a elliptic problem with singular nonlinearity*”

Rio de Janeiro, July 31, 2008.



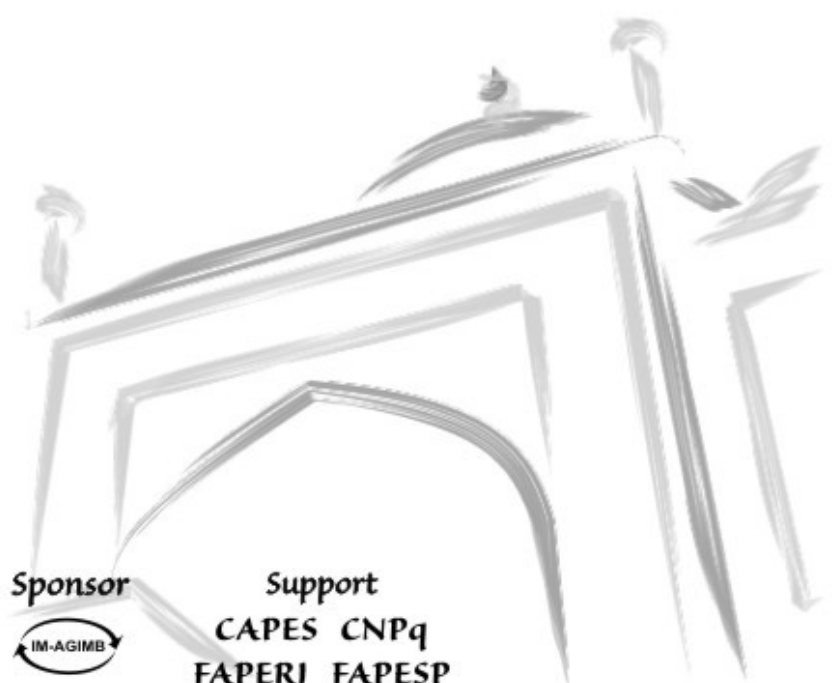
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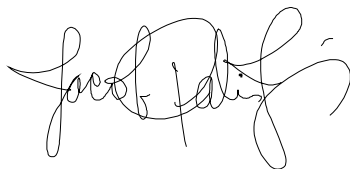
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We certify that **Jorge Hounie** - *Universidade Federal de São Carlos* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work:  
*“Extensions of the Radó theorem”*

Rio de Janeiro, July 31, 2008.



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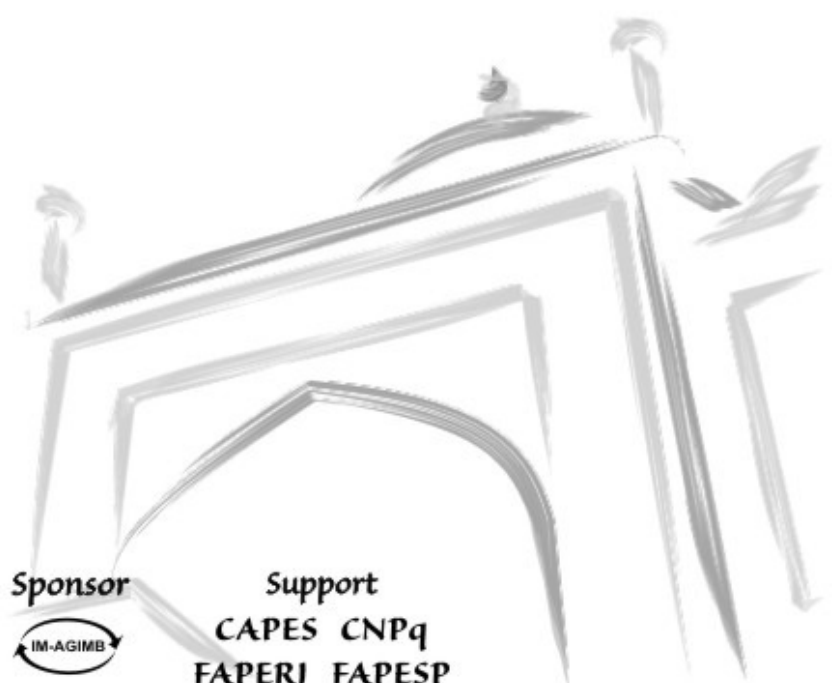
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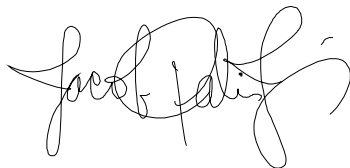
1<sup>st</sup> Indo-Brazilian

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We certify that **Jugal Verma** - *Indian Institute of Technology Bombay* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Hilbert functions of multigraded algebras mixed multiplicities of ideals and their applications”*

Rio de Janeiro, July 31, 2008.



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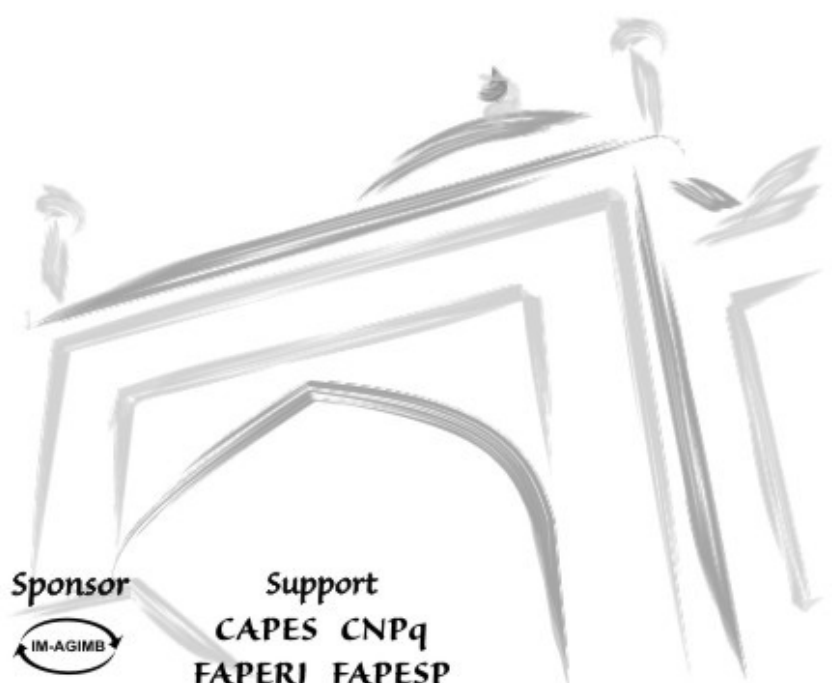
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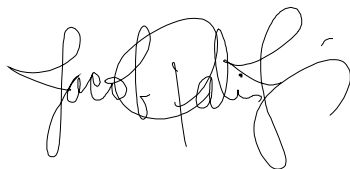
1<sup>st</sup> Indo-Brazilian

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We certify that **Kalyan B. Sinha - *J. N. Centre for Advanced Scientific Research, Bangalore*** participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Dynamical Semigroups and Dilations*”

Rio de Janeiro, July 31, 2008.



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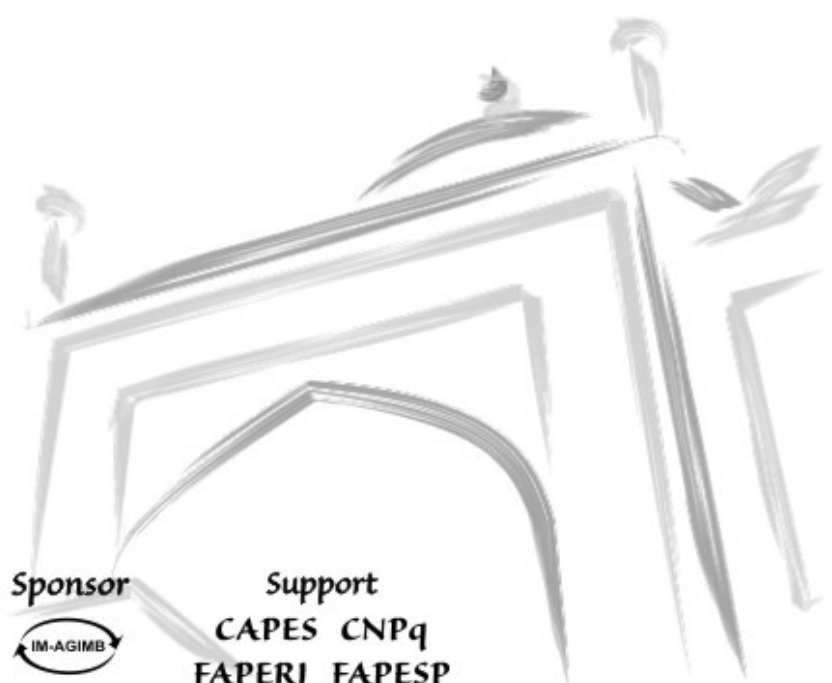
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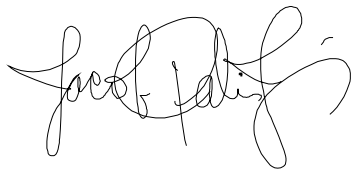
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We certify that **Kapil Hari Paranjape** - *Institute of Mathematical Sciences* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Varieties defined over number fields*”

Rio de Janeiro, July 31, 2008.



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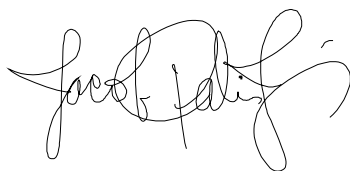
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We certify that **Liliane de Almeida Maia** - *Universidade de Brasilia* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work:  
*“Nodal solutions for a weakly coupled nonlinear Schrödinger System”*

Rio de Janeiro, July 31, 2008.



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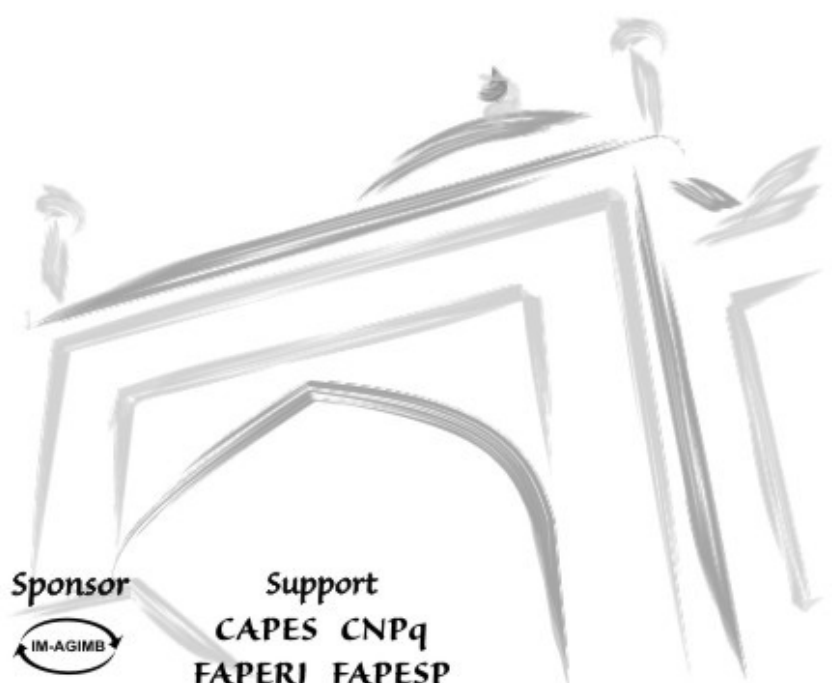
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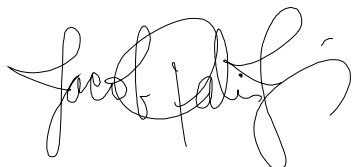
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We certify that **Marcelo Fernandes Furtado** - *Universidade de Brasilia* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Positive solutions for nonlinear elliptic equations with fast increasing weights”*

Rio de Janeiro, July 31, 2008.



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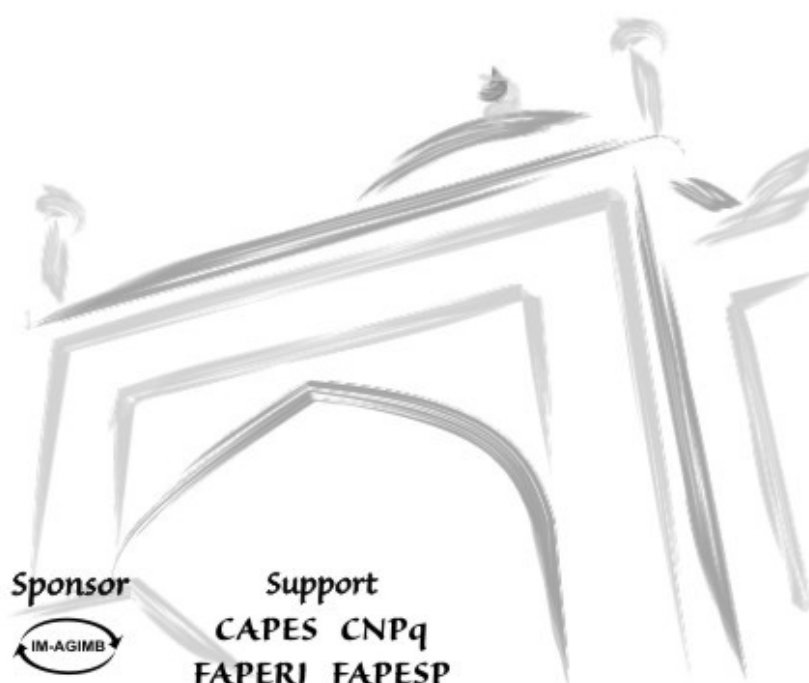
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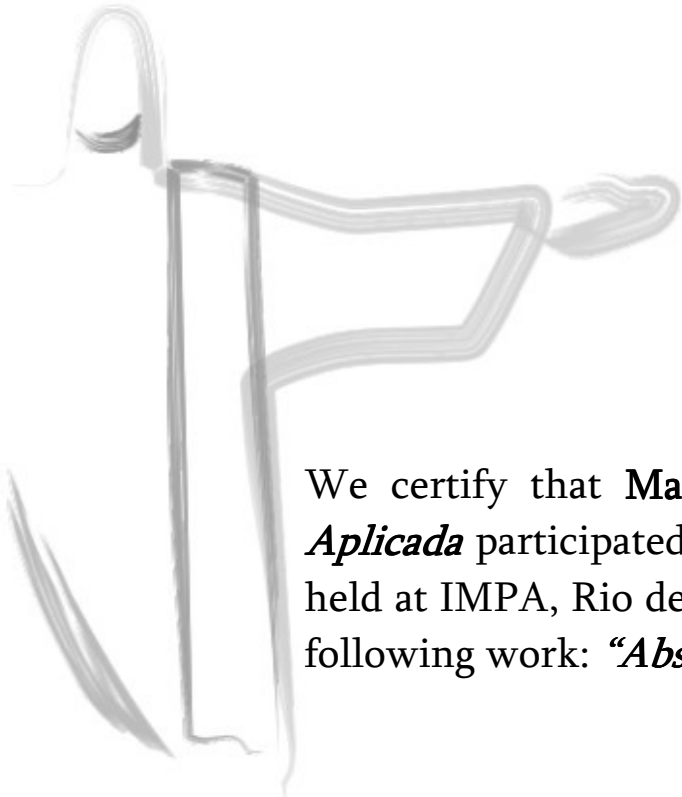


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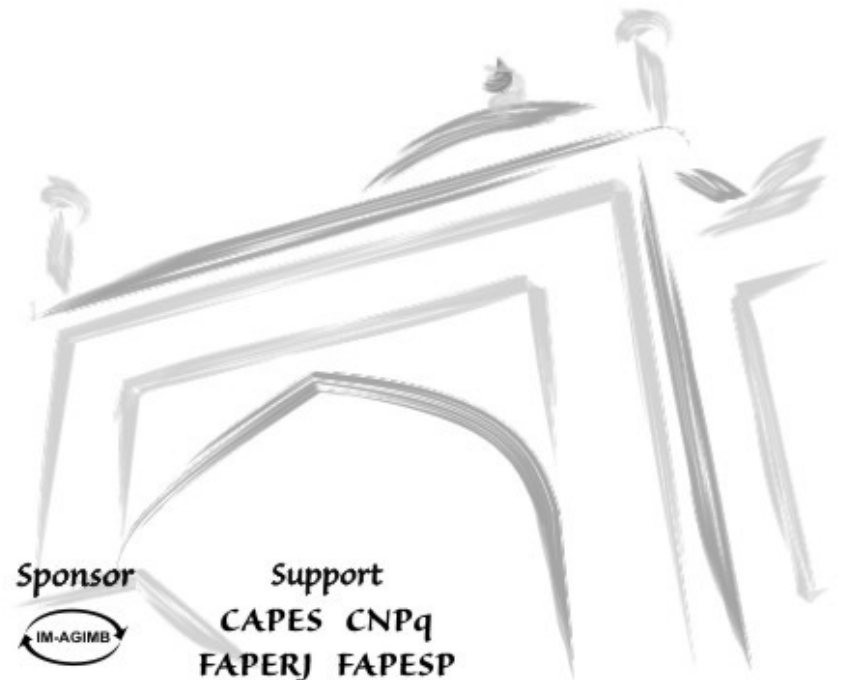
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July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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We certify that **Marcelo Viana** - *Instituto Nacional de Matemática Pura e Aplicada* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Absolute continuity, Lyapunov exponents and rigidity*”

Rio de Janeiro, July 31, 2008.

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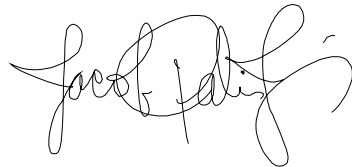
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We certify that **Marcio Gomes Soares** - *Universidade Federal de Minas Gerais* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Hypersurfaces invariant by one-dimensional projective foliations*”

Rio de Janeiro, July 31, 2008.



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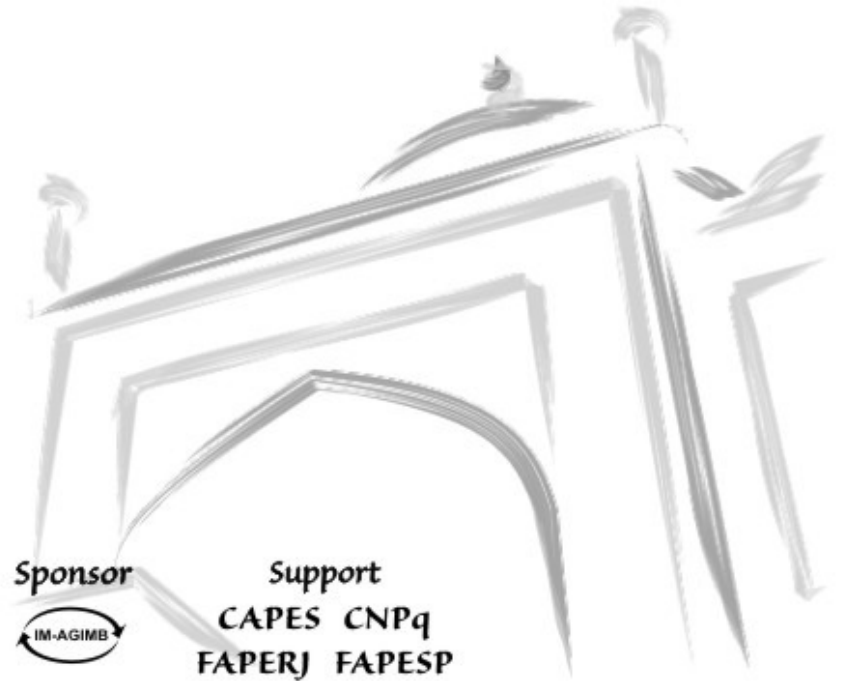
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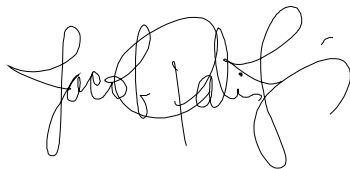
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We certify that **Marcos Dajczer** - *Instituto Nacional de Matemática Pura e Aplicada* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Hypersurfaces with prescribed mean curvature”*

Rio de Janeiro, July 31, 2008.



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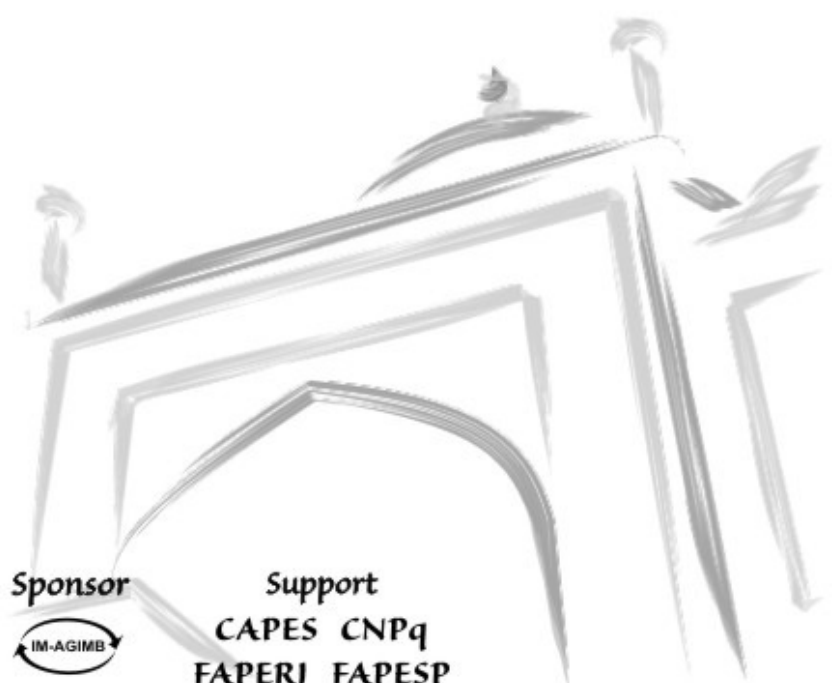
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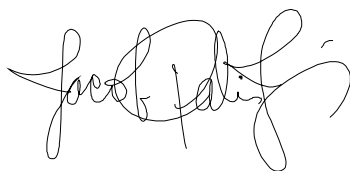
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We certify that **Maria Eulalia Vares** - *Centro Brasileiro de Pesquisas Físicas* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Random spatial growth with paralyzing obstacles”*

Rio de Janeiro, July 31, 2008.



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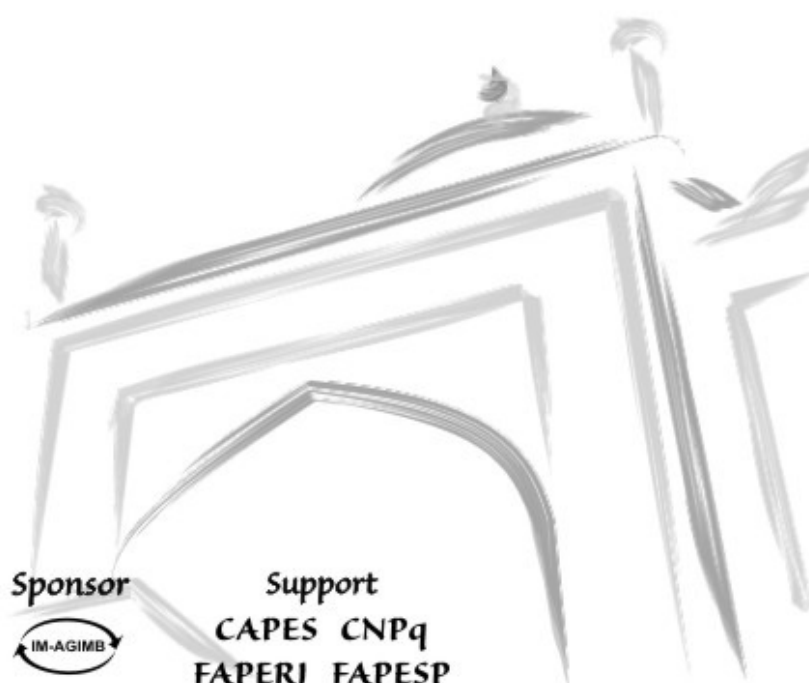
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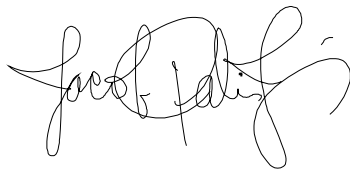
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We certify that Nancy Lopes Garcia - *Universidade Estadual de Campinas* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“How to tune the BIC to find the best context tree”*

Rio de Janeiro, July 31, 2008.



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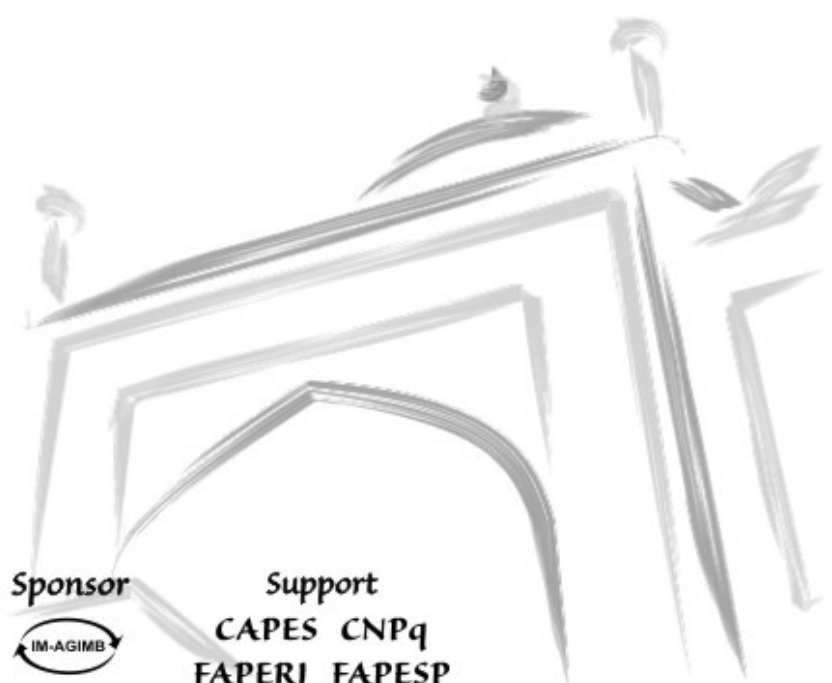
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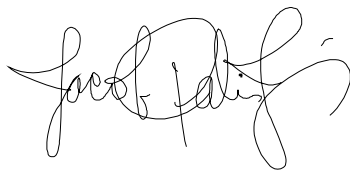
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We certify that **Nathan Berkovits** - *Instituto de Física Teórica* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work:  
*“Hypersurfaces invariant by one-dimensional projective foliations”*

Rio de Janeiro, July 31, 2008.



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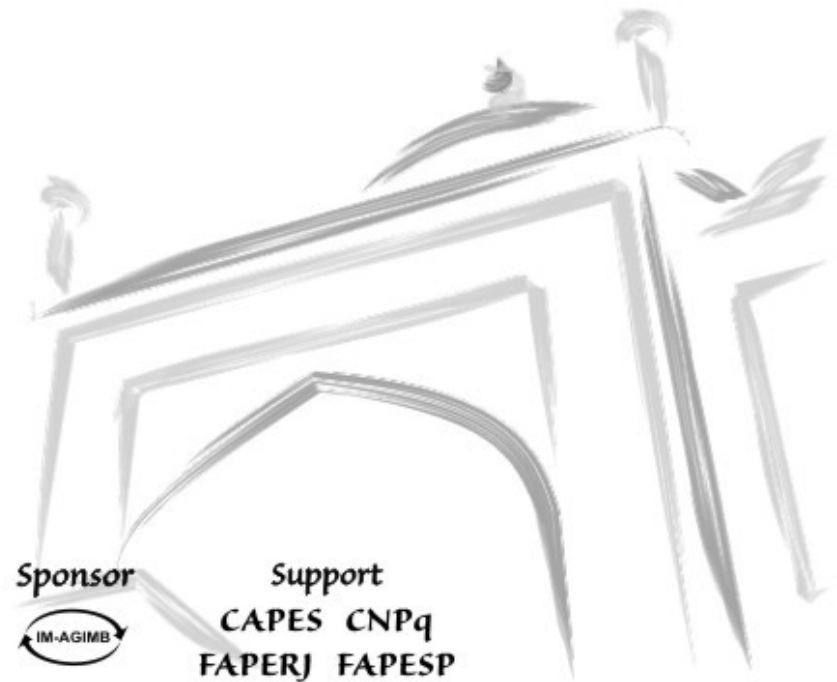
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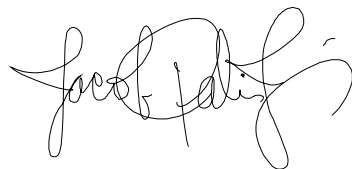
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We certify that **Nimish A. Shah** - *Tata Institute of Fundamental Research* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Limiting distributions of smooth curves under geodesic flow on hyperbolic manifolds*”

Rio de Janeiro, July 31, 2008.



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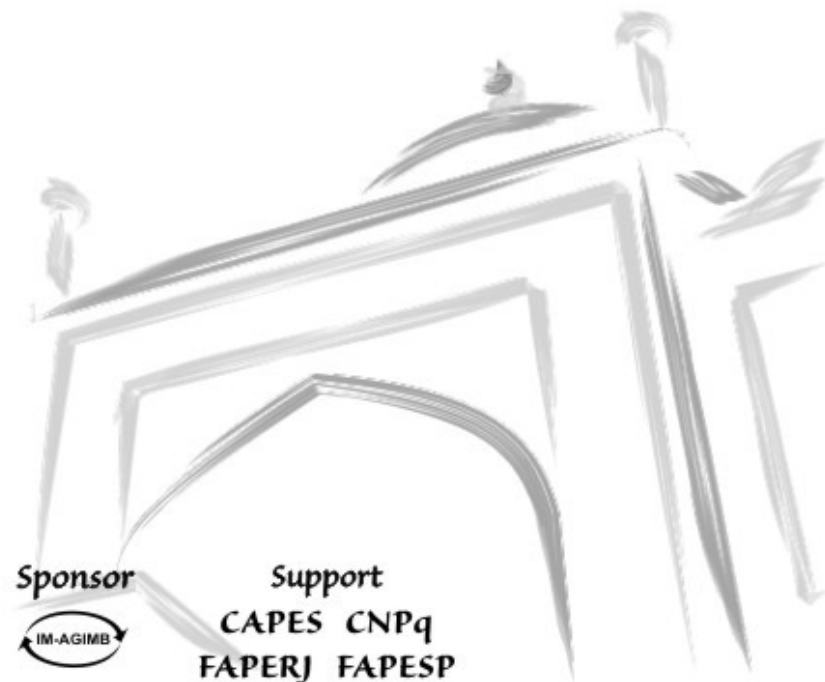
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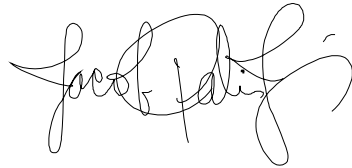
1<sup>st</sup> Indo-Brazilian

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We certify that **Olimpio Hiroshi Miyagaki** - *Universidade Federal de Viçosa* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Soliton solutions for quasilinear Schrodinger equations with critical growth”*

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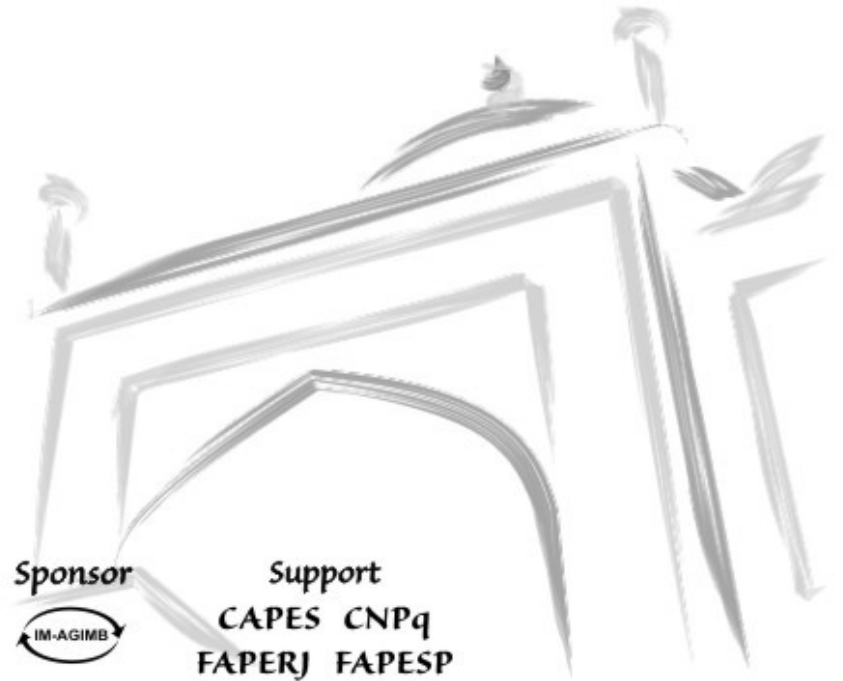
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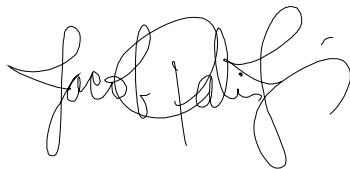
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We certify that P.N. Srikanth - *Tata Institute of Fundamental Research* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Singularly perturbed elliptic equations with*”

Rio de Janeiro, July 31, 2008.



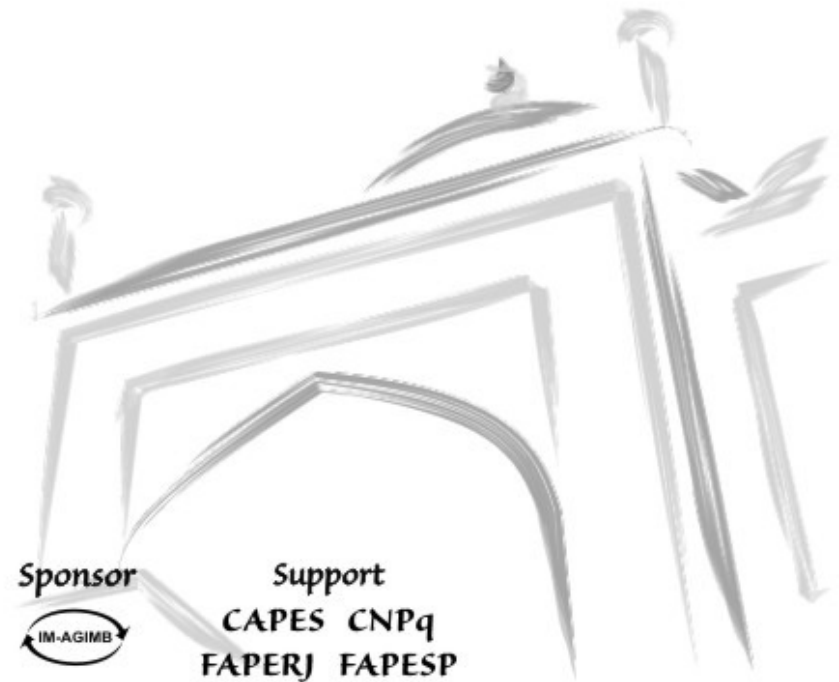
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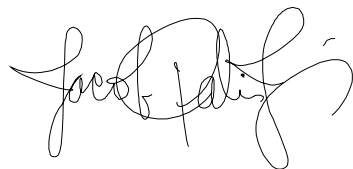
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We certify that **Pablo A Ferrari** - *Instituto de Matemática e Estatística - USP-São Paulo* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Multiclass conservative processes, invariant measures and matrix method”*

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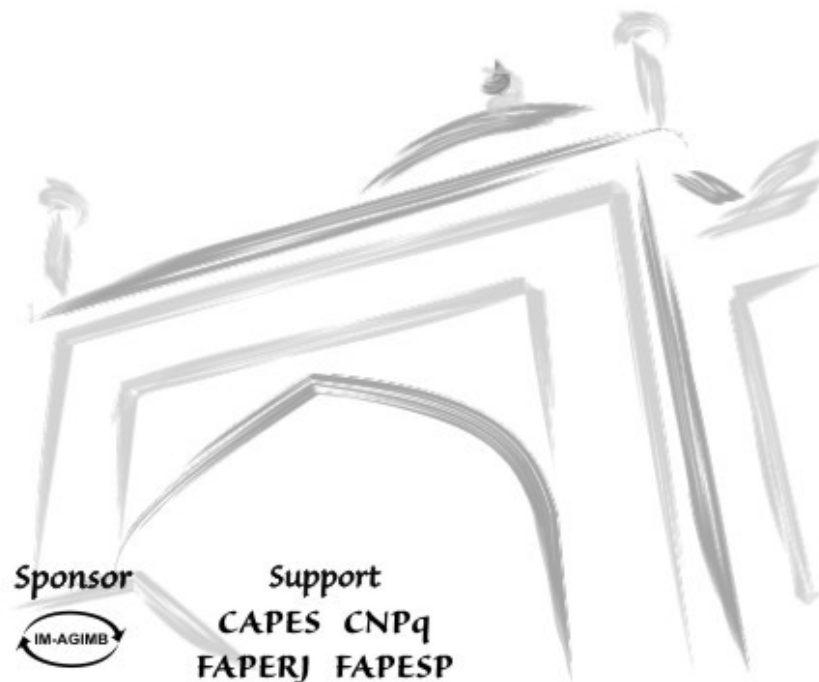
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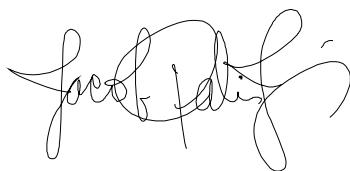
1<sup>st</sup> Indo-Brazilian

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We certify that **Paulo Domingos Cordaro** - *Instituto de Matemática e Estatística* - *USP-São Paulo* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Resolubilidade local para EDP's Lineares”*

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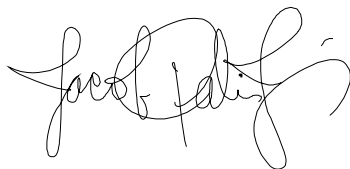
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We certify that **Raghunathan, Madabusi S** - *Tata Institute of Fundamental Research* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“On Thurston's conjecture on Hyperbolic Manifolds”*

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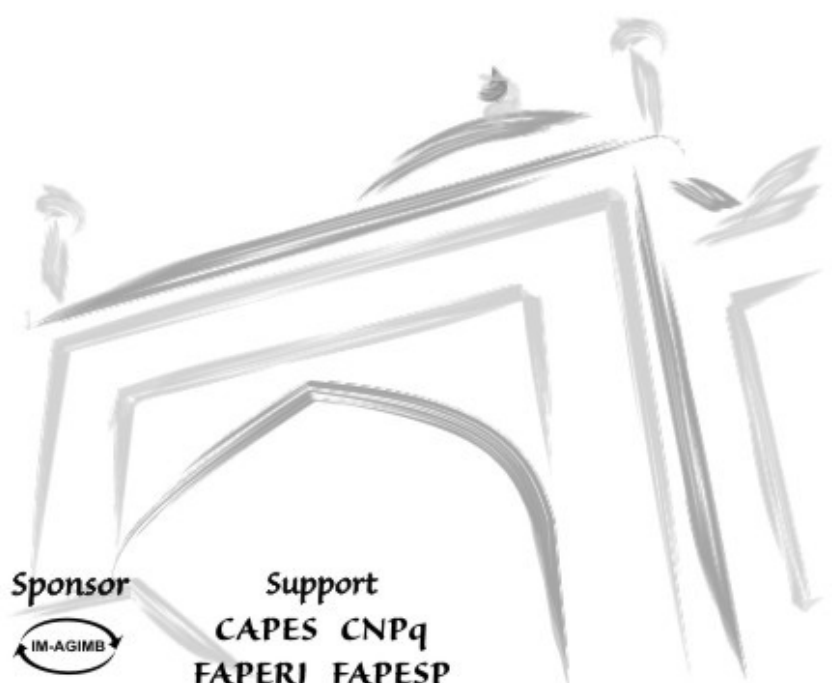
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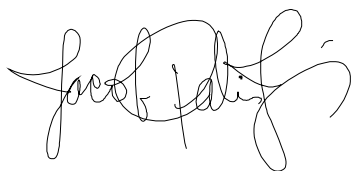
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We certify that **Rahul Roy** - *Indian Statistical Institute, Delhi Centre* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Coverage of space by random sets”*

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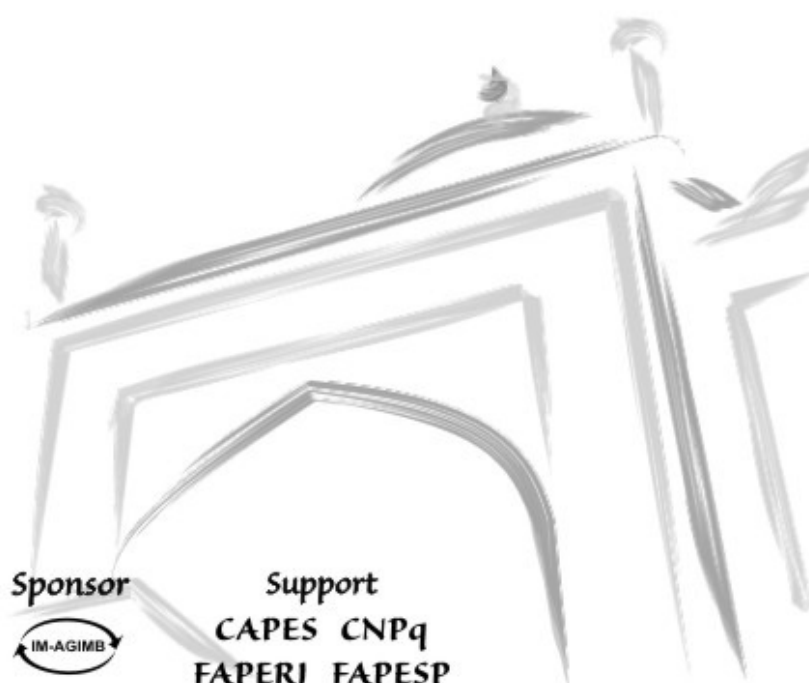
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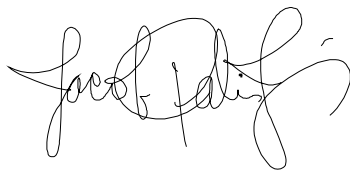
1<sup>st</sup> Indo-Brazilian

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We certify that **Ramón Mendoza** - *Universidade Federal de Pernambuco* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Injectiveness for the Dirichlet to Neumann Functional”*

Rio de Janeiro, July 31, 2008.



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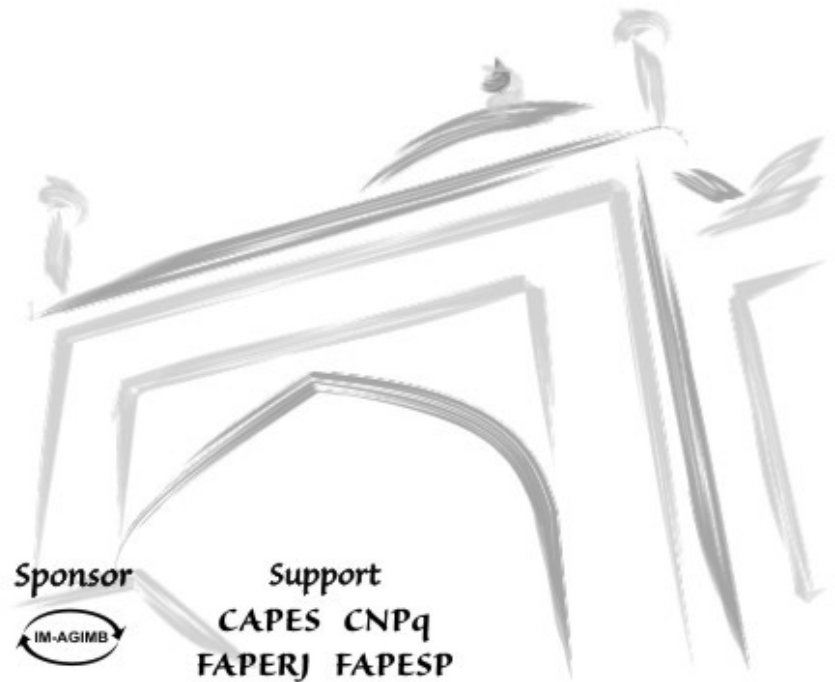
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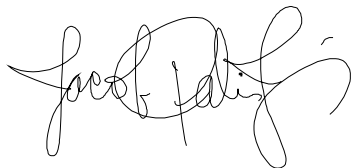
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We certify that **Shrikrishna G. Dani** - *Tata Institute of Fundamental Research* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Flows on homogeneous spaces and Diophantine approximation”*

Rio de Janeiro, July 31, 2008.



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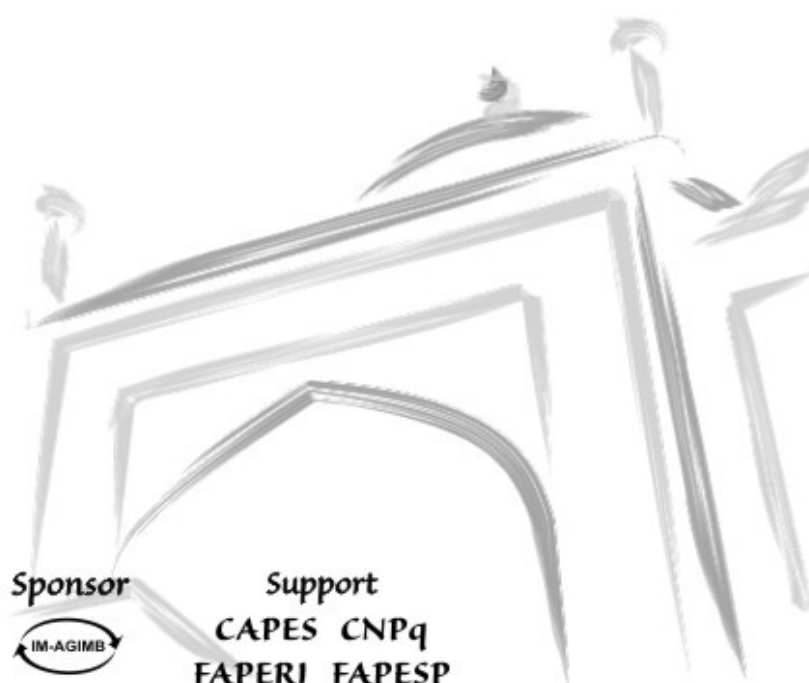
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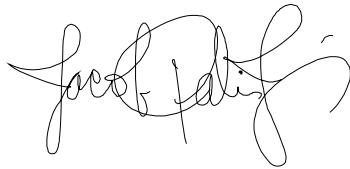
1<sup>st</sup> Indo-Brazilian

IMPA, Rio de Janeiro, Brazil  
July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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समिपुलम इण्डियन  
मथेमेटिक्स

We certify that **Siva Athreya** - *Indian Statistical Institute, Bangalore Centre* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Conditioned Super-Brownian Motion*”

Rio de Janeiro, July 31, 2008.



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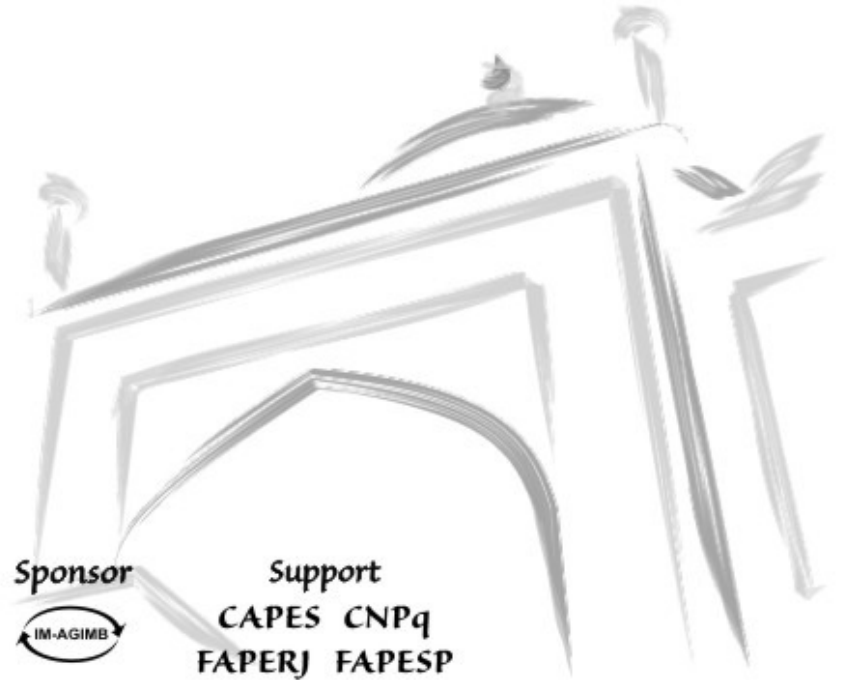
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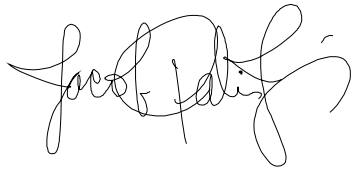
1<sup>st</sup> Indo-Brazilian

IMPA, Rio de Janeiro, Brazil  
July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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समिपोज़ियम इन  
मथेमेटिक्स

We certify that **Sreenivasan Ravi** - *University of Mysore, Mysore, India* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“A new limit law for normalized random maxima”*

Rio de Janeiro, July 31, 2008.



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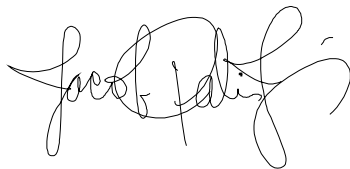
1<sup>st</sup> Indo-Brazilian

IMPA, Rio de Janeiro, Brazil  
July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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We certify that **V.S. Sunder** - *Institute of Mathematical Sciences* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work:  
*“Planar algebras and Hopf Algebras”*

Rio de Janeiro, July 31, 2008.



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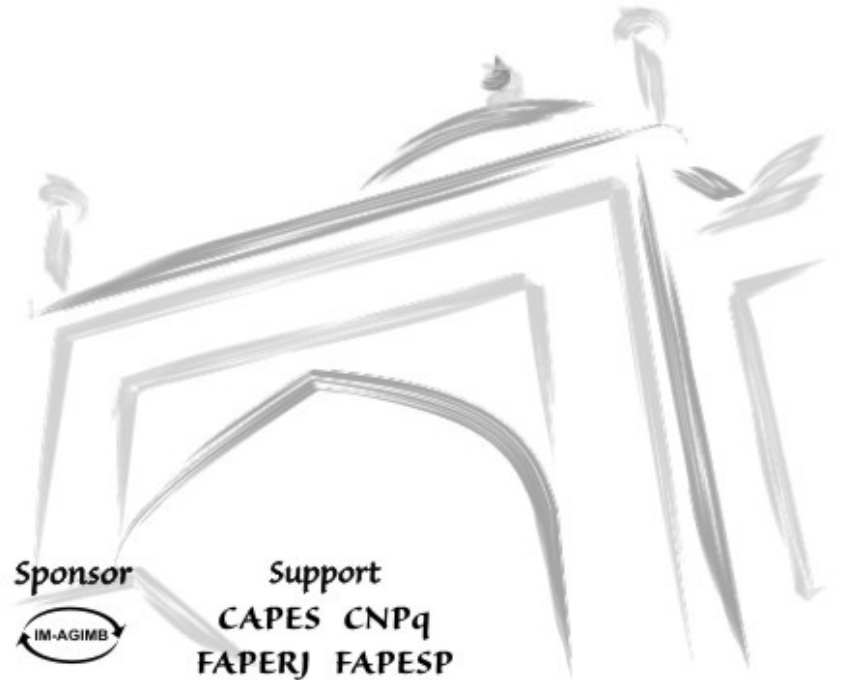
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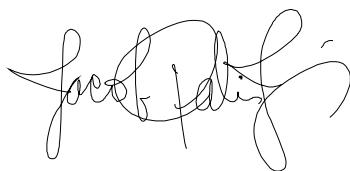
1<sup>st</sup> Indo-Brazilian

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July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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गणित

We certify that **Vasudevan Srinivas** - *Tata Institute of Fundamental Research* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Zero Cycles and Complete Intersections”*

Rio de Janeiro, July 31, 2008.



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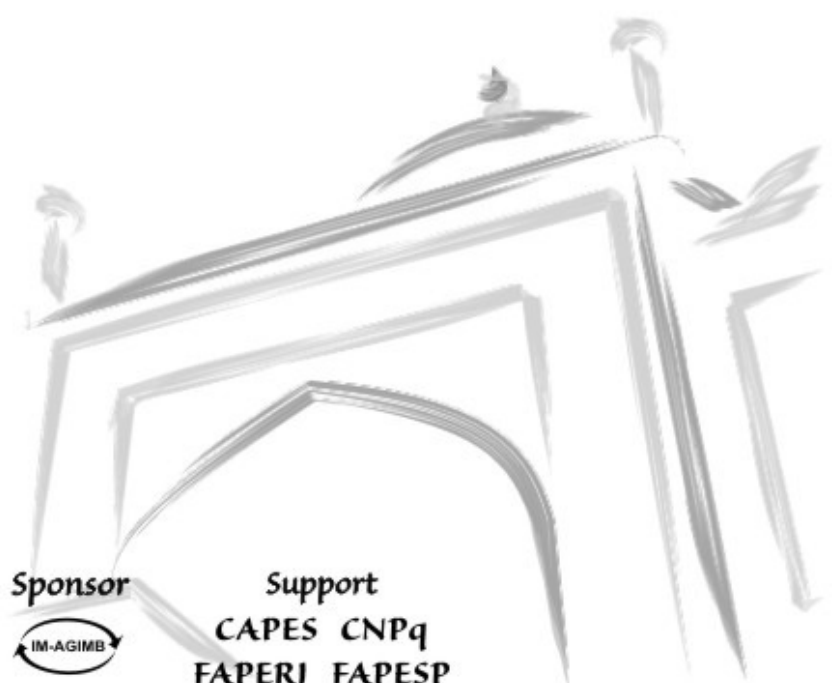
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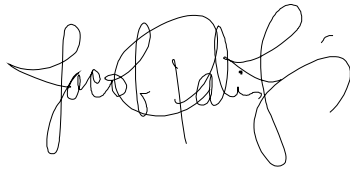
1<sup>st</sup> Indo-Brazilian

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गणित

We certify that **Venapally Suresh** - *University of Hyderabad, Hyderabad India* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“quadratic forms”*

Rio de Janeiro, July 31, 2008.



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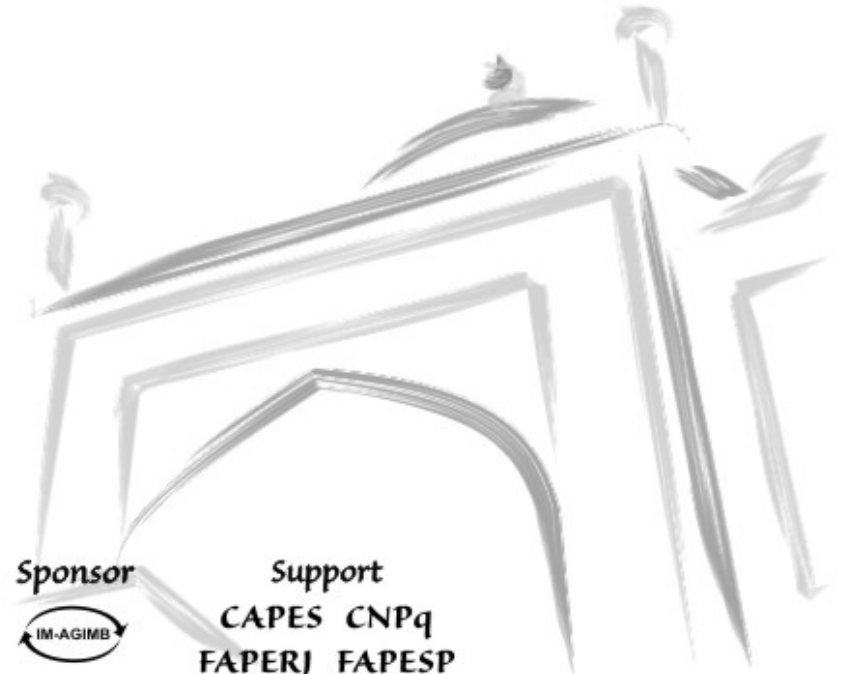
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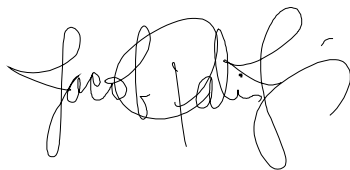
1<sup>st</sup> Indo-Brazilian

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July 28<sup>th</sup> to August 1<sup>st</sup>, 2008

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मथेमेटिक्स

We certify that **Vikraman Balaji** - *Chennai Mathematical Institute* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work:  
*“Moduli space of principal bundles on projective varieties”*

Rio de Janeiro, July 31, 2008.



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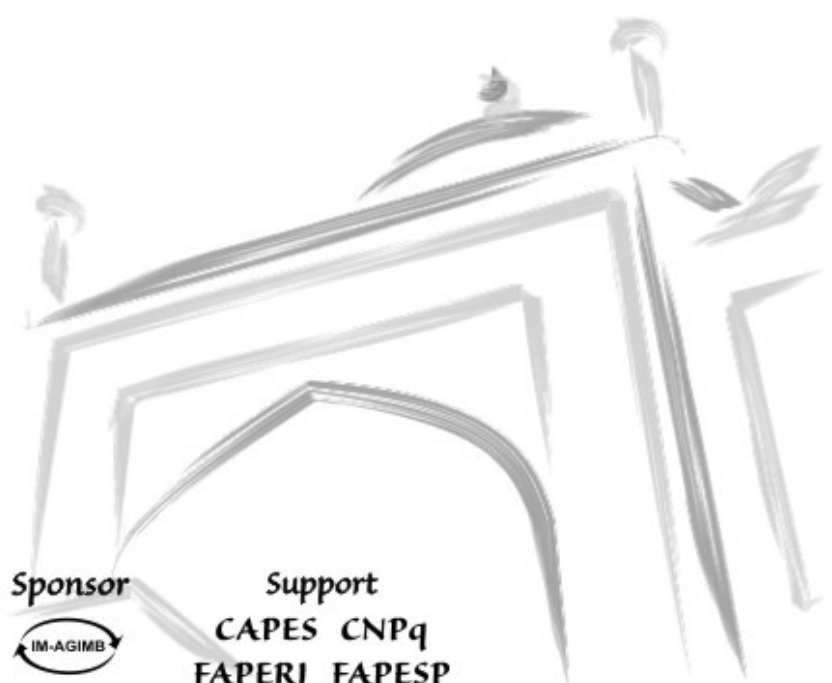
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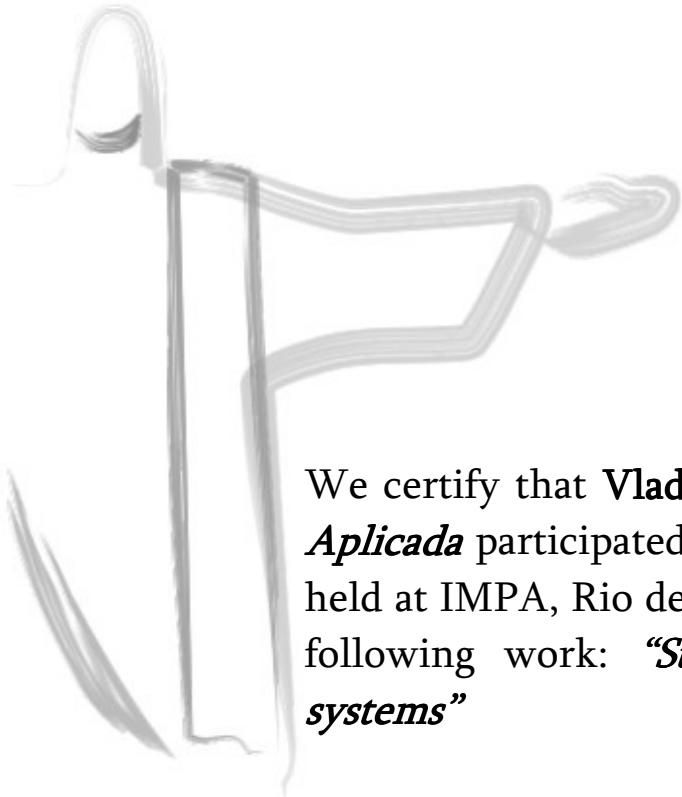


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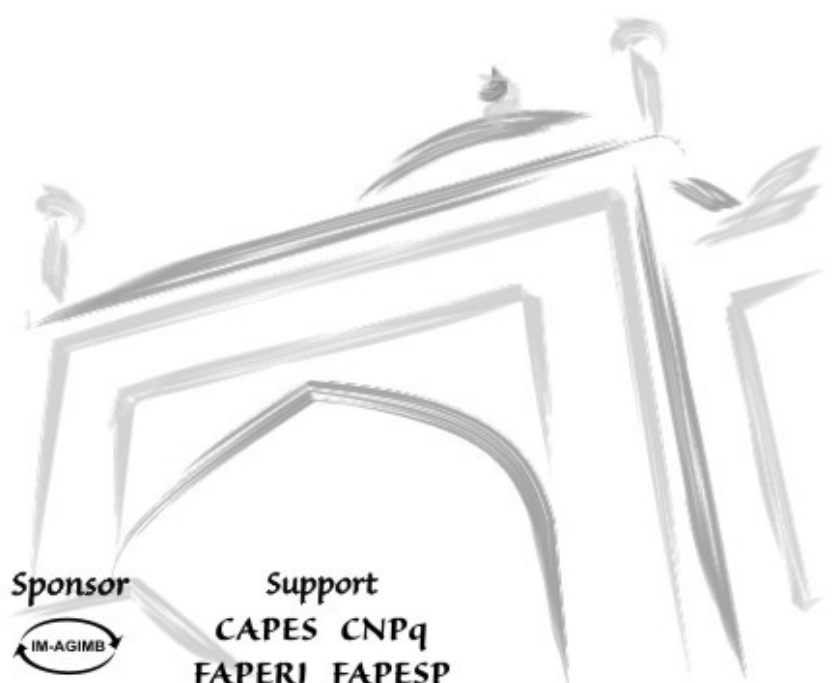
We certify that **Vladas Sidoravicius** - *Instituto Nacional de Matemática Pura e Aplicada* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Stochastic structure of .critical. percolative and growth systems”*

Rio de Janeiro, July 31, 2008.

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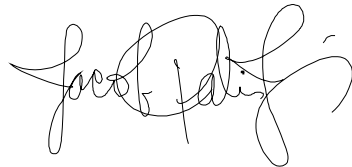
1<sup>st</sup> Indo-Brazilian

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We certify that Vyacheslav Futorny - *Instituto de Matemática e Estatística - USP-São Paulo* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: *“Representations of Kac-Moody (super)algebras”*

Rio de Janeiro, July 31, 2008.



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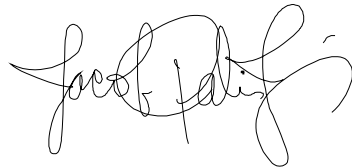
1<sup>st</sup> Indo-Brazilian

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We certify that **Wellington de Melo** - *Instituto de Matemática Pura e Aplicada* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*Renormalization in dynamics*”

Rio de Janeiro, July 31, 2008.



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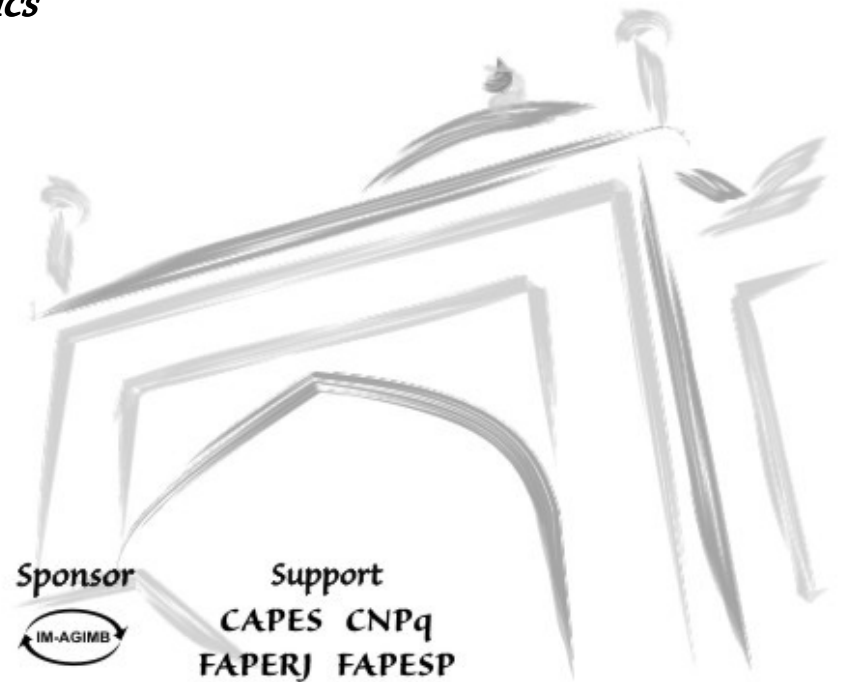
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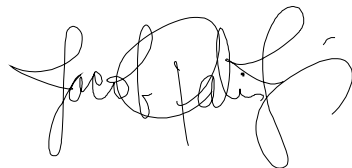
1<sup>st</sup> Indo-Brazilian

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We certify that Yoshiharu Kohayakawa - *Instituto de Matemática e Estatística - USP-São Paulo* participated in the “First Indo-Brazilian Symposium in Mathematics”, held at IMPA, Rio de Janeiro from July 28 to August 01, 2008 and presented the following work: “*A Problem in Probabilistic combinatorial number theory*”

Rio de Janeiro, July 31, 2008.



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