

a conference in honour of Victor Kac



CERTIFICATE

IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Adriano Adrega de Moura*, **IMECC**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Prime** representations from a homolgical perspective.

Rio de Janeiro, June 28, 2013.











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CERTIFICATE

IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Alexandre Ferreira Ramos*, USP - Escola de Artes, Ciências e Humanidades, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: Symmetry and Stochastic Gene Regulation.

Rio de Janeiro, June 28, 2013.





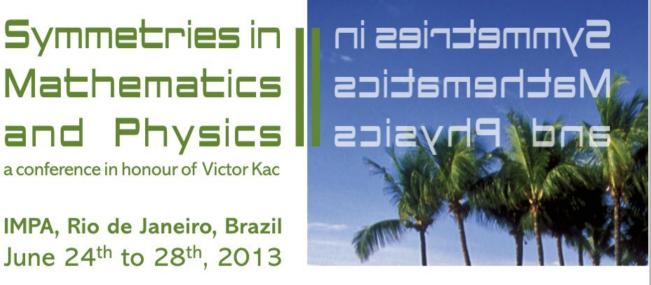






Mathematics I and Physics | zpizyd9

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IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Alexandre Grichkov*, Instituto de Matemática e Estatística, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: New simple Lie algebras over a field of characteristic two...

Rio de Janeiro, June 28, 2013.











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We hereby certify that, *Artem Lopatin*, **IMECC**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Classical invariant** theory for linear groups in modular case..

Rio de Janeiro, June 28, 2013.



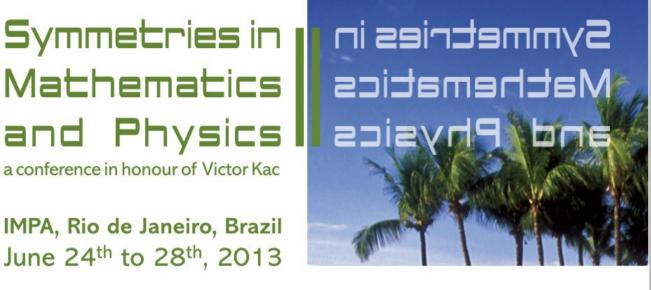








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IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Evan Andrew Wilson*, Inst. de Matemática, Est. e Ciência da Computação, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: Soliton cellular automata associated with Dn(1)-crystal B2;s.

Rio de Janeiro, June 28, 2013.











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IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Fernanda de Andrade Pereira*, **IMECC**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **The** total order on the set of equivalence classes of affinizations of U q(sl 2)-modules...

Rio de Janeiro, June 28, 2013.











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We hereby certify that, *Fernando Studzinski Carvalho*, Universidade Federal do Paraná, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: Group Actions on Riemann Surfaces.

Rio de Janeiro, June 28, 2013.











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We hereby certify that, *Francesco Toppan*, Centro Brasileiro de Pesquisas Físicas, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: Critical scaling for D-module representations of superconformal algebras and constraints on superconformal mechanics.

Rio de Janeiro, June 28, 2013.

Reimundo Heluani Organizing Committee

Support





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We hereby certify that, *Germán Benitez Monsalve*, Instituto de Matemática e Estatística, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Um Estudo sobre a Categoria Derivada de Algebras String.**

Rio de Janeiro, June 28, 2013.











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CERTIFICATE

IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Iryna Kashuba*, **Instituto de Matemática e Estatística**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Free field realizations of induced modules for affine Lie algebras.**

Rio de Janeiro, June 28, 2013.











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CERTIFICATE

IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Ivan Kaygorodov*, **Instituto de Matemática e Estatística**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Analogues of classical theorems for generalizations of Poisson algebras.**

Rio de Janeiro, June 28, 2013.











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IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Jack Denne Arce Flores*, **PUC del Peru**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Twisted tensor products with k[y+-1] and Hopf algebras.**

Rio de Janeiro, June 28, 2013.











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CERTIFICATE

IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Kostiantyn lusenko*, Universidade Federal do Abc, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: On the Hall algebra of representations of bound quivers over F1.

Rio de Janeiro, June 28, 2013.











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CERTIFICATE

IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Liudmila Sabinina*, *Universidad Autonoma del Estado de Morelos*, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: Halfautomorpisms and Code Loops.

Rio de Janeiro, June 28, 2013.











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CERTIFICATE

IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Matheus Batagini Brito*, *IMECC*, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Snake modules of type B_n and polynomial representations of gl(2n|1).**

Rio de Janeiro, June 28, 2013.













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IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Matthew Lyle Bennett*, **IMECC**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Tilting** modules for the current algebra of a simple Lie algebra.

Rio de Janeiro, June 28, 2013.











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CERTIFICATE

IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Renato Alessandro Martins*, Inst. de Matemática, Est. e Ciência da Computação, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: Free field realizations of induced modules for affine Lie algebras.

Rio de Janeiro, June 28, 2013.











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We hereby certify that, *Roldão da Rocha Jr.*, Universidade Federal do Abc, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: Kac -Moody Algebras in the non-Associative Clifford Bundle on S7 and Hopf Maps.

Rio de Janeiro, June 28, 2013.











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CERTIFICATE

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We hereby certify that, *Stephen Gagola III*, Charles University, Prague, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Halfautomorpisms and Code Loops.**

Rio de Janeiro, June 28, 2013.











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IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Thais Mayumi Batista Makuta*, Universidade Federal do Paraná, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: Algebras Extensions by Hopf Algebras.

Rio de Janeiro, June 28, 2013.











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IMPA, Rio de Janeiro, Brazil June 24th to 28th, 2013

We hereby certify that, *Tiago Rodrigues Macedo*, **IMECC**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Characters of representations of hyper algebras**.

Rio de Janeiro, June 28, 2013.











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We hereby certify that, *Victor Hugo López Solís*, **Instituto de Matemática e Estatística**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **Álgebras Envelopantes e O Teorema de Poincaré - Birkhoff - Witt..**

Rio de Janeiro, June 28, 2013.











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We hereby certify that, *Zhanna Kuznetsova*, **Universidade Federal do Abc**, participated in the Symmetries in Mathematics and Physics II, held at IMPA – Rio de Janeiro, from June 24 to 28, 2013 and presented the following work: **N-extended supersymmetric and supersonformal systems in one dimension..**

Rio de Janeiro, June 28, 2013.







