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IV Iberoamerican Meeting on Geometry, Mechanics and Control

celebrating Jair Koiller's 65th birthday

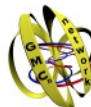
IMPA, Rio de Janeiro, Brazil
April 7th to 11th, 2014

We hereby certify that, **Alan Weinstein, University of California at Berkeley**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Functorial quantization of linear canonical relations**”.

Rio de Janeiro, April 11, 2014.

Henrique Bursztyn
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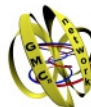
IMPA, Rio de Janeiro, Brazil
April 7th to 11th, 2014

We hereby certify that, **Alejandro Cabrera, Universidade Federal do Rio de Janeiro**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: **“About multiplicative structures on Lie groupoids and vortex motion on surfaces”**.

Rio de Janeiro, April 11, 2014.

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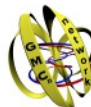
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April 7th to 11th, 2014

We hereby certify that, **Anthony M. Bloch, University of Michigan**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Nonholonomic, Dissipative, and Hamiltonian Dynamics**”.

Rio de Janeiro, April 11, 2014.

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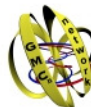
IMPA, Rio de Janeiro, Brazil
April 7th to 11th, 2014

We hereby certify that, **Carlos Tomei**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work:
“Other applications of factorizations for solving flows”.

Rio de Janeiro, April 11, 2014.

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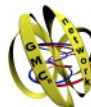
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April 7th to 11th, 2014

We hereby certify that, **Clodoaldo Grotta Ragazzo**, Instituto de Matemática e Estatística, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Hydrodynamic Vortex on Surfaces**”.

Rio de Janeiro, April 11, 2014.

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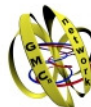
April 7th to 11th, 2014

We hereby certify that, **Darryl D Holm, Imperial College London**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Momentum Maps, Shape Analysis and Solitons**”.

Rio de Janeiro, April 11, 2014.

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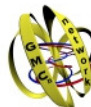
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We hereby certify that, **Debra Lewis, University of California, Santa Cruz**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Allegro non troppo: moderated optimal control**”.

Rio de Janeiro, April 11, 2014.

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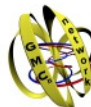
April 7th to 11th, 2014

We hereby certify that, **Fátima Silva Leite**, Univ. de Coimbra, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Fitting problems on Riemannian manifolds**”.

Rio de Janeiro, April 11, 2014.

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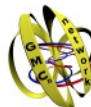
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We hereby certify that, **Frank Michael Forger**, Instituto de Matemática e Estatística, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: **“Multisymplectic Geometry and Classical Field Theory - A Status Report”**.

Rio de Janeiro, April 11, 2014.

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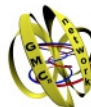
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We hereby certify that, **Greg Huber**, **University of California Santa Barbara**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Geometry of an Intracellular Membrane**”.

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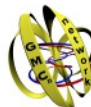
IMPA, Rio de Janeiro, Brazil
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We hereby certify that, **Hildeberto Eulalio Cabral**, **Universidade Federal de Pernambuco**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: **“Stability of equilibria in Hamiltonian systems”**.

Rio de Janeiro, April 11, 2014.

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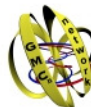
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We hereby certify that, **Jurdjevic, Velimir, University of Toronto**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Hamiltonian systems and optimal control strong maximum principle**”.

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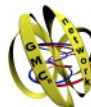
IMPA, Rio de Janeiro, Brazil
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We hereby certify that, **Kurt M. Ehlers, University of Nevada**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Bacterial motion: basic physics + geometry + biology**”.

Rio de Janeiro, April 11, 2014.

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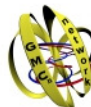
We hereby certify that, **Luis Constantino García Naranjo Ortiz de la Huerta, Universidad Nacional Autónoma de México**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Preservation of Volumes in Nonholonomic Mechanics**”.

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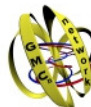
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We hereby certify that, **Manuel de Leon**, Consejo Superior de Investigaciones Cientificas, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Reduction of the Hamilton-Jacobi equation**”.

Rio de Janeiro, April 11, 2014.

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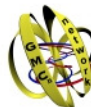
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We hereby certify that, **María Barbero Liñán**, **Universidad Carlos III de Madrid**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: **“Interconnection of Dirac systems for Morse families”**.

Rio de Janeiro, April 11, 2014.

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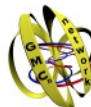
IMPA, Rio de Janeiro, Brazil
April 7th to 11th, 2014

We hereby certify that, ***Maria Edith Padrón Fernández***, **Universidad La Laguna**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: **“Reduction of Symplectic Lie Algebroids”**.

Rio de Janeiro, April 11, 2014.

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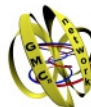
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April 7th to 11th, 2014

We hereby certify that, **Maria Etchechoury, Universidad Nac. de la Plata**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: **“Implicit Differential Equations: Singularity Crossing Phenomena and Impasse Points”**.

Rio de Janeiro, April 11, 2014.

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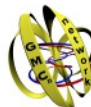
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We hereby certify that, **Mark J Gotay, Univ. of British Columbia**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Quantization via Deformation of Prequantization**”.

Rio de Janeiro, April 11, 2014.

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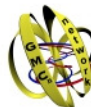
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We hereby certify that, **Mathieu Desbrun, California Institute of Technology**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Geometric discretization for computational modeling**”.

Rio de Janeiro, April 11, 2014.

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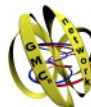
IMPA, Rio de Janeiro, Brazil
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We hereby certify that, **Miguel Rodriguez-Olmos**, **Universitat Politècnica de Catalunya**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**The Fast-Superfast Transition in the sleeping Lagrange top**”.

Rio de Janeiro, April 11, 2014.

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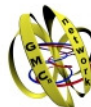
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April 7th to 11th, 2014

We hereby certify that, **Paula Balseiro, Universidade Federal Fluminense**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Nonholonomic systems and the Halmiltonization problem**”.

Rio de Janeiro, April 11, 2014.

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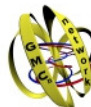
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We hereby certify that, **Richard Montgomery, University of California, Santa Cruz**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: **“From micro-organisms to the three-body problem”**.

Rio de Janeiro, April 11, 2014.

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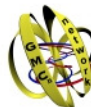
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We hereby certify that, **Sebastián José Ferraro, Universidad Nacional del Sur**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: **“Regularization of Hamilton's principle for higher-order Lagrangian systems”**.

Rio de Janeiro, April 11, 2014.

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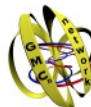
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We hereby certify that, **Tudor Ratiu, Ecole Polytechnique Fédérale de Lausanne**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: **“Mechanics and control”**.

Rio de Janeiro, April 11, 2014.

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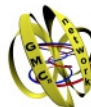
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We hereby certify that, **Yuri Fedorov, Universitat Politècnica de Catalunya**, participated in the IV Iberoamerican Meeting on Geometry, Mechanics and Control. Celebrating Jair Koiller's 65th birthday, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from April 7 to 11, 2014 and presented the following work: “**Abelian varieties in algebraic integrable systems and separation of variables.**”.

Rio de Janeiro, April 11, 2014.

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