

# Geometric Analysis



IMPA, Rio de Janeiro, Brazil  
November 16 - 26, 2010

## CERTIFICATE

We hereby certify that, **Alix Deruelle**, **Université de Grenoble**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Steady gradient Ricci soliton with curvature in  $L^1$** ”.

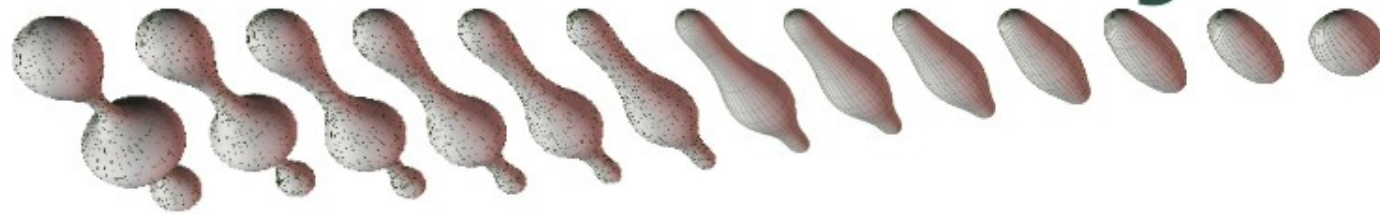
Rio de Janeiro, November 26, 2010.

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Organizing Committee



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November 16 - 26, 2010

## CERTIFICATE

We hereby certify that, **Chih-Wei Chen**, **Université Joseph Fourier**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Geometry of gradient Ricci solitons whose Ricci curvatures are not nonnegative**”.

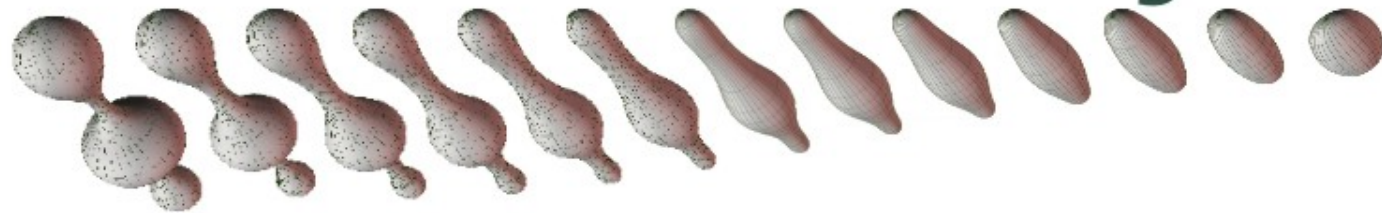
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## CERTIFICATE

We hereby certify that, **Detang Zhou, Universidade Federal Fluminense**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Geometry of Ricci solitons for Ricci flows**,”.

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## CERTIFICATE

We hereby certify that, ***Ezequiel Rodrigues Barbosa***, **Universidade Federal de Minas Gerais**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: "***A sphere theorem for pinching positive scalar curvature manifolds***".

Rio de Janeiro, November 26, 2010.

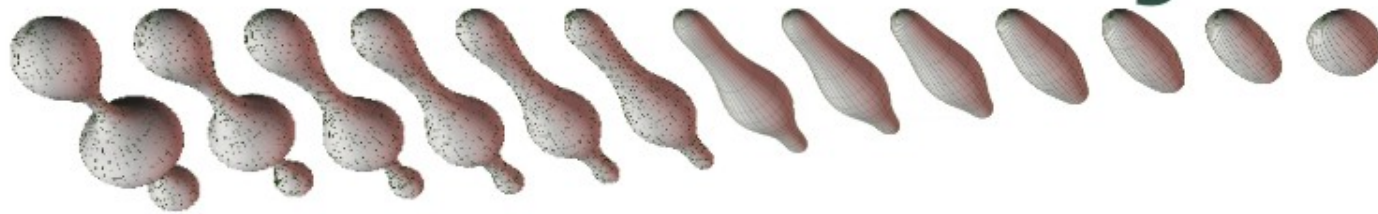
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## CERTIFICATE

We hereby certify that, ***Fernando Codá dos Santos Cavalcanti Marques***, Instituto de Matematica **Pura e Aplicada**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “***Minicurso: Curvature flows and scalar curvature problems***”.

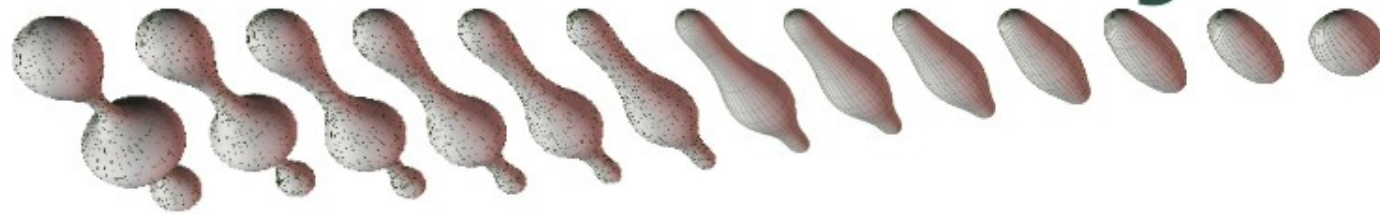
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## CERTIFICATE

We hereby certify that, **Frederico Vale Girão**, **Universidade Federal do Ceará**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Orbifold Degeneration of Conformally Compact Einstein Metrics**”.

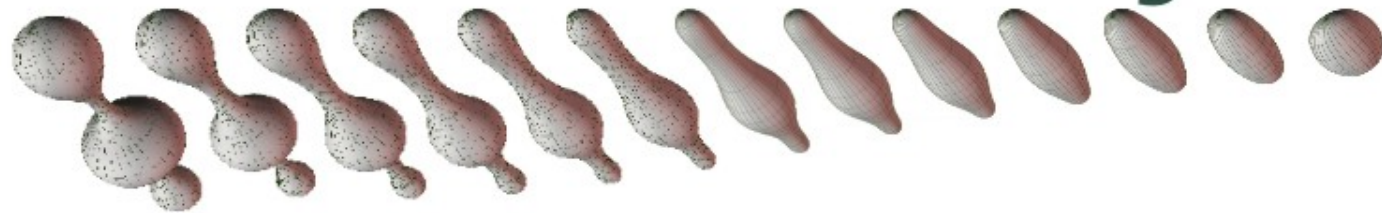
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We hereby certify that, **Gérard Besson**, **Université Joseph Fourier**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Heat Kernel and Riemannian Geometry**”.

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We hereby certify that, **Jorge Herbert Soares de Lira**, **Universidade Federal do Ceará**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: "**Prescribing anisotropic mean curvature**".

Rio de Janeiro, November 26, 2010.

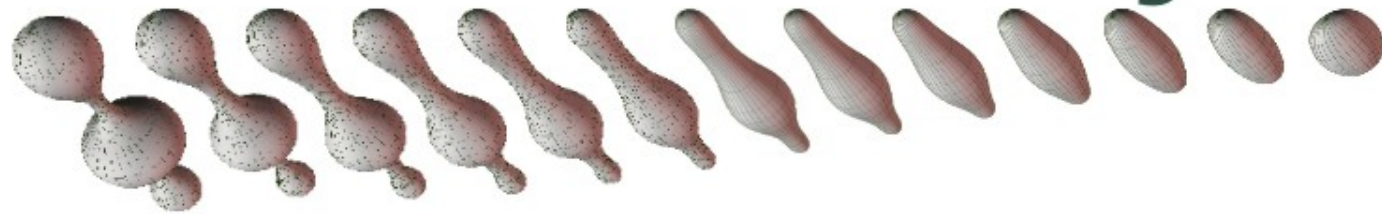
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We hereby certify that, **Julien Cortier**, **Université Montpellier 2**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Maximal Analytic Extensions of the Emparan-Real Black Ring**”.

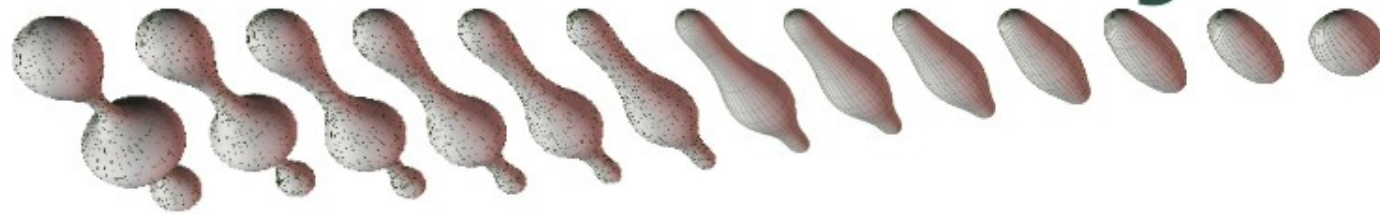
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We hereby certify that, **Laurent Bessières, Université de Grenoble**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Variants of Ricci flow with surgery and applications**”.

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We hereby certify that, **Paolo Piccione**, Instituto de Matemática e Estatística, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “***Equivariant implicit function theorem in geometric variational problems***”.

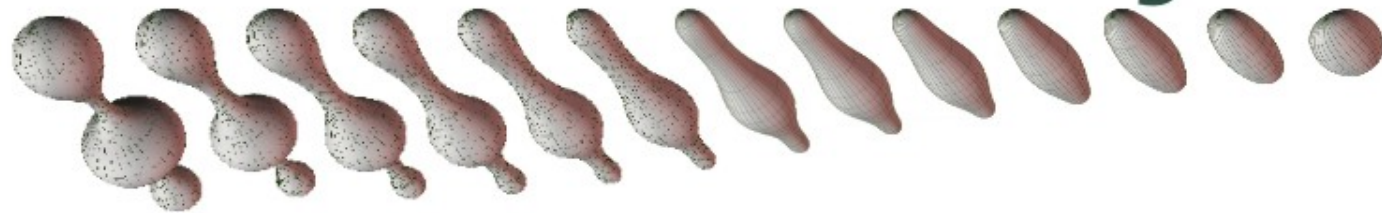
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We hereby certify that, ***Pierre Berard***, **Université de Grenoble**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “***Embedding of a Riemannian manifold by eigenfunctions***”.

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## CERTIFICATE

We hereby certify that, **Rafael Oswaldo Ruggiero Rodriguez**, Pontifícia Universidade Católica do Rio de Janeiro, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Ricci-Yang-Mills flow and the boundary of Anosov metrics**”.

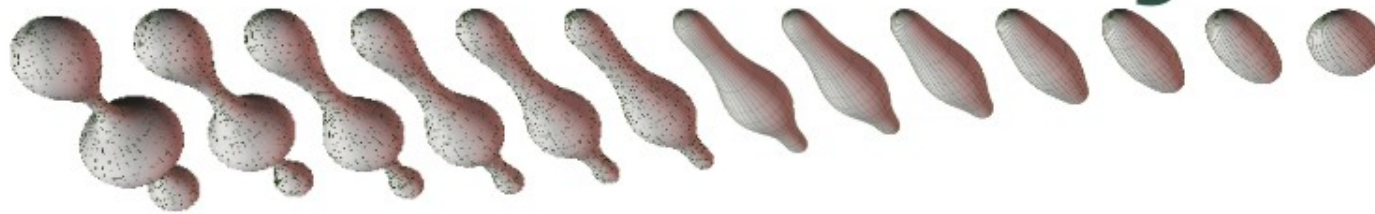
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We hereby certify that, **Sergio de Moura Almaraz**, **Universidade Federal Fluminense**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Blow-up phenomena for scalar-flat metrics on manifolds with boundary**”.

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## CERTIFICATE

We hereby certify that, **Thomas Richard**, **Université Joseph Fourier**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Sequences of Ricci Flows in dimension 3, with some applications.**”.

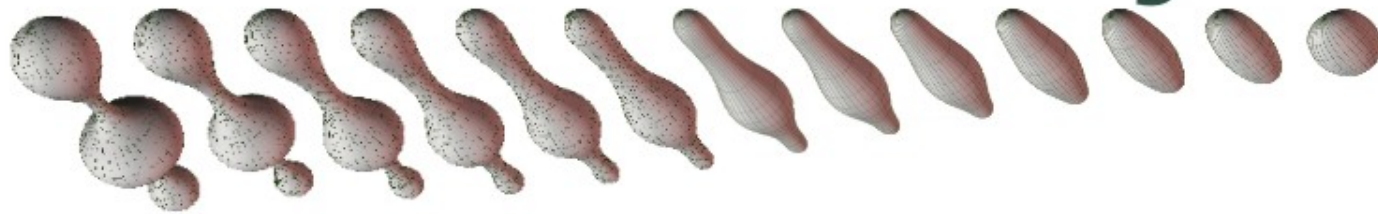
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We hereby certify that, **Vincent Bour**, **Université Joseph Fourier**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**On some fourth order curvature flows**”.

Rio de Janeiro, November 26, 2010.

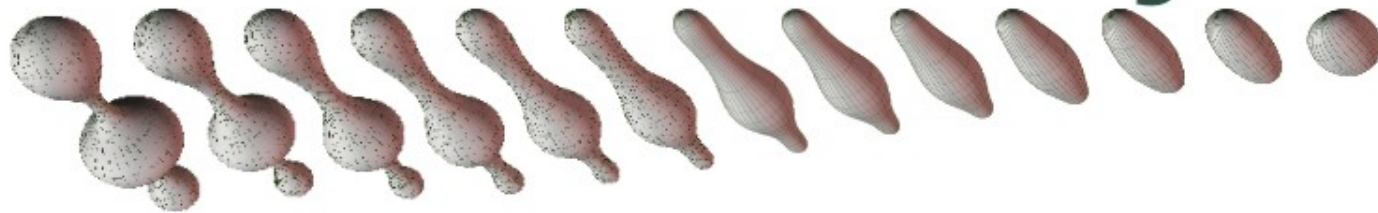
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We hereby certify that, ***William Meeks III***, Univ. of Massachusetts at Amherst, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “***Constant mean curvature surfaces in metric Lie groups***”.

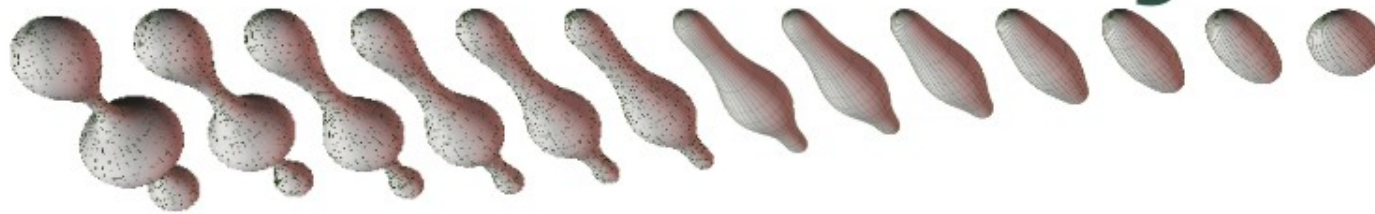
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## CERTIFICATE

We hereby certify that, **Zidine Djadli**, **Université Joseph Fourier**, participated in the Geometric Analysis, held at IMPA, Rio de Janeiro - RJ, from November 16 to 26, 2010 and presented the following work: “**Conformal deformations of metrics and applications to rigidity of closed manifolds**”.

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