

Benini Riccardo

Position: Post Doc at Physics Dept - University of Rome
"Sapienza"

Period covered: 02/07/07 - 30/06/09



I Scientific Work

Dynamics of the Universe near the Big-Bang, Homogeneous Models, Quantum Gravity, Canonical Formalism in General Relativity and Statistical Mechanics.

II Conferences and educational activities

- II Stueckelberg Workshop on Relativistic Field Theories, September 3-7, 2007 - Pescara (Italy)
- 7 BritGrav, April 3-4, 2007 Cambridge (UK).
- XI Marcel Grossmann Meeting, July 23-29, 2006, Berlin (Germany).
- I Stueckelberg Workshop on Relativistic Field Theories, June 25 -July 1 2006 Pescara (Italy)
- III Italian-Sino Workshop on Cosmology and Relativistic Astrophysics, July 10-20 2005 Pescara (Italy)

III 2007-2008 List of Publications

Classical and Quantum Features of the Mixmaster Singularity.
G. Montani, M. V. Battisti, R. Benini and G. Imponente, January 2008
International Journal of Modern Physics A 23:2353-2503,2008
e-Print: arXiv:0712.3008.

Classical and quantum aspects of the inhomogeneous mixmaster chaoticity.
Riccardo Benini and Giovanni Montani, Gennaio 2007.
Proceedings of 11th Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation, and Relativistic Field Theories, Berlin, Germany, July 23-29, 2006.
e-Print: gr-qc/0701094

Covariant description of the inhomogeneous mixmaster chaos.
Riccardo Benini and Giovanni Montani, January 2007.

Proceedings of 11th Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation, and Relativistic Field Theories, Berlin, Germany, July 23-29, 2006.

e-Print: [gr-qc/0701093](https://arxiv.org/abs/gr-qc/0701093)

Vector field induced chaos in multi-dimensional homogeneous cosmologies.

Riccardo Benini, Alexander A. Kirillov and Giovanni Montani. January 2007.

Proceedings of 11th Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation, and Relativistic Field Theories, Berlin, Germany, July 23-29, 2006.

Riccardo Benini was born in Rome in 1979.

After obtaining his Master Degree in Physics in 2003 at "Sapienza" University of Rome, he won a fellowship for his PhD at "Alma Mater Studiorum" University of Bologna.

He spent 6 months during 2007 as visitor at the Queen Mary College, University of London working in the group of Prof. M.A.C. Callum.

Now he works as PostDoc at the Physics Department of Sapienza.

He is author of more than 10 publications on international journals and participated in several international meetings.