



Research School Summary 2012 CIMPA

The title is:

Algebraic Structures, their representation and applications in geometry and non-associative models

CIMPA-UNESCO-MICINN-COLOMBIA Research School

Objectives:

- To introduce graduate and advanced undergraduate students to the current research in the field, facilitate students
- to get connections with international researchers which help them to get funding or at least acceptance for further studies abroad.
- To promote the development of the subject through academic exchange among Southamerican researchers.
- To update the knowledge of the local mathematical community by inviting senior local and international researchers.

Administrative and Scientific Coordinators:

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Scientific committee:

- Nicolás Andruskiewitsch, Universidad Nacional de Córdoba, Argentina

- Leticia Brambila Paz, Centro de Investigación en Matemáticas, Mexico
- Pedro Luis Del Ángel, Centro de Investigación en Matemáticas, Mexico
- Alberto Elduque, Universidad de Zaragoza, Spain
- Ester García, Universidad Rey Juan Carlos, Spain
- Dieter Happel, Chemnitz University of Technology, Germany
- Eduardo do Nascimento Marcos, Universidade de Sao Paulo, Brazil
- Cesar Polcino, Universidade de Sao Paulo, Brazil
- Ivan Shestakov, Universidade de Sao Paulo, Brazil
- Sonia Trepode, Universidad Nacional del Mar del Plata, Argentina
- Otmar Venjakob, Mathematisches Institut, Universität Heidelberg, Germany
- Wilson Zuñiga, Centro de Investigación y de Estudios Avanzados, Mexico

Organizing committee:

- Raúl Velásquez (Universidad de Antioquia – Colombia)
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Date and location:

March 5 - March 16

Cartagena de Indias, Colombia.

Scientific program:

The school will offer four short courses with an intensity of eight hours each. Also, two plus hours will dedicate to propose and solve problems.

- REDUCTION IN REPRESENTATION OF ALGEBRAS, Raymundo Bautista, Universidad Nacional Autónoma de Mexico, Morelia, Mexico.
- LIE ALGEBRAS: KILLING-CARTAN CLASSIFICATION, Alberto Elduque, Universidad de Zaragoza, Spain.
- INTRODUCTION TO JORDAN SYSTEMS, CONNECTIONS WITH LIE ALGEBRAS, Esther Garcia, Universidad Rey Juan Carlos, Spain.
- INTRODUCTION TO TILTING THEORY, Dieter Happel, Chemnitz University of Technology, Germany.
- INTRODUCTION TO LOCAL ZETA FUNCTION, Wilson Zuñiga, Centro de Investigación y de Estudios Avanzados, Mexico.