

**ERE2010: First Announcement**  
***“Gravity as a Crossroad in Physics”***

The 2010 edition of the **Spanish Relativity Meeting (ERE2010)** will be held in Granada from the 6th to 10th September 2010. The [Spanish Relativity Meeting \(ERE\)](#) is an international conference devoted to Relativity and Gravitation which is organized every year by one of the Spanish groups working in this area. This year, it will be hosted by the [Instituto de Astrofísica de Andalucía \(IAA-CSIC\)](#) in Granada, Spain. ERE2010 is scientifically supported by the [Spanish Society of Gravitation and Relativity \(SEGRE\)](#) and the [International Society on General Relativity and Gravitation](#).

The EREs started in 1977 with the main objective of promoting scientific discussion and interchange of knowledge in relativity and gravitation in a relaxed atmosphere. Over the years, the conference has gained international recognition and has attracted an increasing number of worldwide participants. EREs are nowadays established as relevant international events in the field, maintaining substantially their original relaxed character. A list of previous meetings and a short history of the EREs can be found in <http://www.segre.es/en/historia.shtml>.

## **1) Scientific content**

ERE2010 will have as subtitle **“Gravity as a Crossroad in Physics”**. The underlying rationale is to present Gravity physics as a scientific “locus” for the interbreeding between (separate) communities in Physics. We aim at reflecting this interdisciplinary perspective in the scientific program. In this sense, each Day along the week will be devoted to a particular “dialogue” between two communities sharing some of their ultimate goals, but differing in their conceptual background, methodology or technical approach. These ”dialogues” are envisaged as opportunities to compare alternative viewpoints, keeping a focus on their complementary nature.

The following “Day Titles” aim at capturing the scientific spirit of each Day (brief descriptions can be found at <http://www.iaa.es/ere2010/>):

- **Day 1: Fundamental vs. Effective Approaches in Theoretical Gravity**
- **Day 2: Geometric vs. Quantum Field/String Theory Approaches to Quantum Gravity**
- **Day 3: Theoretical Cosmology vs. Physical Cosmology**
- **Day 4: Relativity vs. Astrophysics**
- **Day 5: Mathematical Relativity vs. Numerical Relativity**

## **2) Invited speakers**

The interdisciplinary character of the meeting is reflected in the provisional list of invited speakers:

A. Achúcarro, L. Álvarez-Gaumé, A. Ashtekar, F. Barbero, B. Carter, M. Colpi, S. Dain, J. Garriga, E. Gourgoulhon, B. Krishnan\*, S. Liberati, A. Lobo, J.M. Martín-García, G. Mena-Marugán, R. Narayan, T. Padmanabhan, R. Parentani, R. Rebolo, L. Rezzolla\*, C. Rovelli, J. Valiente-Kroon, E. Verdaguer and M. Visser, G.E. Volovik.

(\* to be confirmed)

### 3) Committees

#### **ERE2010 Advisory Board:**

M. Alcubierre (ICN, Universidad Nacional Autónoma de México).

- A. Ashtekar (Penn State University).
- R. Beig (Institute of Theoretical Physics, University of Viena).
- C. Cutler (Jet Propulsion Laboratory, California Inst. of Technology).
- T. Damour (Institute des Hautes Etudes Scientifiques, Paris).
- R. Maartens (Institute of Cosmology and Gravitation, University of Portsmouth).
- F. Quevedo (DAMTP, University of Cambridge).
- M. Visser (Victoria University of Wellington).

#### **ERE2010 Local Organising Committee:**

- Víctor Aldaya
- Carlos Barceló (Coordinator)
- Luis J. Garay
- José Luis Jaramillo (Coordinator)
- Francisco López-Ruiz

### 4) Organization aspects

Information regarding registration, abstract submission, accommodation and travel issues will be posted soon at the web page of the conference <http://www.iaa.es/ere2010>.

We hope that this conference will be of your interest, so that we will meet you in Granada in September.

With best regards,

The Local Organising Committee