



The Abdus Salam
**International Centre
 for Theoretical Physics**
 www.ictp.it



WORKSHOP on TOPICS in THREE DIMENSIONAL GRAVITY

21 - 24 March 2016

Miramare, Trieste, Italy

Gravity in three dimensions has rather special features which makes it particularly suitable for addressing questions related to the quantization of gravity and puzzles concerning black hole physics. AdS3 gravity and in particular AdS3/CFT2 has played a crucial role in black hole microstate counting, and more recently in studying holographic entanglement entropy and higher spin theories.

Topics include:

- **Asymptotic symmetry groups**
- **Flat space holography**
- **Black hole microstate counting**
- **3d higher spin gravities and their CFT duals**
- **Entanglement entropy and AdS3 quantum gravity**
- **Extended, massive and supergravities in three dimensions**

PARTICIPATION

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the Workshop. As it will be conducted in English, participants should have an adequate working knowledge of this language. Although the main purpose of the Centre is to help research workers from developing countries, through a programme of training activities within a framework of international cooperation, students and post-doctoral scientists from advanced countries are also welcome to attend.

As a rule, travel and subsistence expenses of the participants should be borne by the home institution. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the entire activity. There is no registration fee to be paid.

HOW TO APPLY FOR PARTICIPATION:

The **application form** can be accessed at the Workshop website: <http://indico.ictp.it/event/7629/>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

WORKSHOP SECRETARIAT:

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ICTP Home Page: <http://www.ictp.it/>

IN COLLABORATION WITH



**THE ITALIAN INSTITUTE FOR
 NUCLEAR PHYSICS**

Organizing Committee:

- G. Barnich** (*U. Libre de Bruxelles*)
- A. Dabholkar** (*ICTP & Sorbonne U.*)
- J. de Boer** (*U. of Amsterdam*)
- M. Gaberdiel** (*ETH Zurich*)
- A. Maloney** (*McGill U.*)
- M.M. Sheikh-Jabbari** (*IPM Tehran*)

Invited Speakers include:

- E. Bergshoeff** (*Groningen U.*)
- S. Carlip** (*UC Davis*)
- A. Castro** (*U. of Amsterdam*)
- G. Compère** (*U. Libre de Bruxelles*)
- G. Giribet** (*Brussels & Buenos Aires U.*)
- V. Hubeny** (*UC Davis*)
- C. Krishnan** (*CHEP, IISc, Bangalore*)
- M. Porrati** (*New York U. CCPP*)
- M. Rangamani** (*UC Davis*)
- S.J. Rey** (*National U. Seoul*)
- J. Simon** (*Edinburgh U.*)
- A. Strominger*** (*Harvard U.*)
- M. Van Raamsdonk** (*UBC Canada*)
- J. Zanelli** (*CECS, Valdivia*)

(*) to be confirmed

DEADLINE
 for requesting participation

10 January 2016

