# Workshop on Higgs bundles, instantons and real character varieties

## Description

Higgs bundles and their spectral data have received attention from researchers in very different areas of mathematics and physics and the proposal is planned in response to the exciting developments and interest around the notion of Higgs bundles, instantons and real algebraic geometry. With the recent relations discovered between different research areas, the prospects of progress are excellent. The purpose of the session is to bring the leading key researchers in the area to speak about novel perspectives from which to study Higgs bundles and their applications. This should provide ideal inspiration for young mathematicians in the Latin America to get involved in research in the area, as well as encourage female researchers to join this area of geometry.

The conference will be a thematic session of the
*Fifth Latin American Congress of Mathematicians*
to take place in the Universidad del Norte in Barranquilla
from July 11th to 15th.

www.uninorte.edu.co/web/vclam-en/
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**Registration deadline: 30 June 2016.**

### Organizers

**Laura Schaposnik**
University of Illinois at Chicago
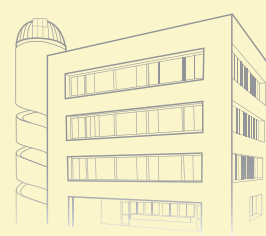schapos.people.uic.edu/Laura_Schaposnik

**Florent Schaffhauser**
Universidad de Los Andes
matematicas.uniandes.edu.co/~florent

## Speakers

- **Steve Bradlow**
  University of Illinois at Urbana-Champaign, Chicago, USA.

- **Pedram Hekmati**
  Instituto Nacional de Matemática Pura e Aplicada IMPA, Brasil.

- **Marcos Jardim**
  Universidade Estadual de Campinas, Brasil.

- **Andrés Larraín-Hubach**
  University of Arizona, USA.

- **Alessia Mandini**
  Pontificia Universidade Católica do Rio de Janeiro, Brasil.

- **Roberto Rubio**
  Instituto Nacional de Matemática Pura e Aplicada IMPA, Brasil.

- **Ronald Zúñiga Rojas**
  Universidad de Costa Rica, Costa Rica.

**Universidad de los Andes**

**GEAR**

**Departamento de Matemáticas**

**matematicas.uniandes.edu.co/eventos/2016/clam/higgs**