

# Thematic program

## **L<sup>2</sup>-INVARIANTS AND THEIR ANALOGUES IN POSITIVE CHARACTERISTIC**

**Instituto de Ciencias Matemáticas**  
**February 19th - June 15th, 2018**  
**Madrid**

The program includes the following activities:

- Inaugural Colloquium by Wolfgang Lück** (February 27th)
- Introductory School**. Speakers: **Łukasz Grabowski, Jesse Peterson, Damien Gaboriau, Andreas Thom, Pere Ara, Thomas Schick, Miklós Abért, Andrei Jaikin, Steffen Kionke, Haluk Şengün** (February 26th - March 9th)
- Advanced courses:**
  1. **“Sofic entropy and finite automata”**, **Miklós Abért** (March 12th-16th)
  2. **“L<sup>2</sup>-Alexander torsion of 3-manifolds”**, **Stefan Friedl** (March 19th-23rd)
  3. **“Fuglede-Kadison determinant and sofic entropy”**, **Lewis Bowen** (April 16th-20th)
  4. **“The theory of epic \*-regular R-rings and its application to the study of L<sup>2</sup>-Betti numbers”**, **Andrei Jaikin** (April 23rd-27th)
- Seminars**
- Workshop** (June 4th-8th)

### Scientific committee:

**Miklós Abért**  
(Alfred Renyi Institute of Mathematics)  
**Andrei Jaikin**  
(UAM-ICMAT)  
**Wolfgang Lück**  
(Hausdorff Research Institute for Mathematics,  
Bonn University)  
**Mark Sapir**  
(Vanderbilt University)  
**Andreas Thom**  
(TU Dresden)

### Local committee:

**Yago Antolin**  
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**Javier Aramayona**  
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**Julio Aroca**  
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**Andrei Jaikin**  
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**Diego López**  
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**More Information, registration and financial support:** <https://www.icmat.es/rt/l2invariants2018/>