

CIMPA School “Group Actions on Algebraic Varieties”, Peru, September 4-15,2017

Short scientific report:

The Directors and Members of the Scientific and Local Committees were:

Directors:

Richard Gonzales (PUCP)

Clementa Alonso (University of Alicante).

Scientific Committee:

Jaime Cuadros (PUCP)

Arturo Fernández (U. F. Minas Gerais, Brasil)

Elizabeth Gasparim (U. Católica del Norte, Chile)

Antonio Laface (U. de Concepción, Chile)

Sam Payne (Yale, EEUU)

Local Committee (PUCP):

Roland Rabanal

Liliana Puchuri

Hernán Neciosup

Nancy Saravia

Andrés Beltrán

Percy Fernández

Soledad Ramirez

There were 5 mini-courses, given by well-known experts from France, Russia and Colombia. These courses lasted between 6 to 8 hours, and were spread across the 2 weeks of the school. The professors in charge of these courses were:

- Michel Brion (Institut Fourier, France)
- Olivier Debarre (École Normale Supérieure, France)
- Nicolas Perrin (Université de Versailles St-Quentin-en-Yvelines, France)
- Alexander Samokhin ((IITP RAS, Moscow, Russia)
- Bernardo Uribe (Universidad del Norte, Colombia)

Additionally, we had 8 research talks (one-hour talks), given by some of the members of the Scientific Committee, some professors from PUCP and some invited professors from Latin-America:

- Fernando Cukierman (U. Buenos Aires, Argentina)
- Christian Valqui (PUCP, Perú)

- Alvaro Rittatore (Centro de Matemáticas, Uruguay)
- Javier Zúñiga (Universidad del Pacífico, Perú)
- Rudy Rosas (PUCP, Perú)

Moreover, some selected participants were chosen to give short talks (25 min, approx.), so that they could present their graduate work to an international audience. It is worth mentioning that some of the professors and myself were in charge of running exercise sessions for the students, so that they could reinforce the knowledge acquired during the lectures.

There were roughly 88 participants (of which 40 were women), divided geographically as follows:

France 5
Spain 2
Russia 1
Italy 3
Argentina 5
Uruguay 2
Brazil 3
Colombia 9
Mexico 10
Chile 10
Ecuador 1
Venezuela 1
Cuba 1
India 1
China 1
Peru 33

The expenses of the School have been covered using the following international and local support:

1. CIMPA
2. International Mathematical Unión
3. Foundation Compositio Mathematica
4. Universidad de Alicante
5. PUCP

Some of the lecturers and invited speakers covered their plane tickets with their own grants.

Sponsors:

- Centre International de Mathématiques Pures et Appliquées (CIMPA)

- International Mathematical Union (IMU), Germany
- Foundation Compositio Mathematica, Holland
- Centre National de la Recherche Scientifique (CNRS), France
- Universitat Politècnica de Catalunya, Spain
- International Center for Theoretical Physics (ICTP), Italy.
- Pontificia Universidad Católica del Perú (PUCP).

There is also a link to some video recordings of the lectures:

<https://educast.pucp.edu.pe/videos/cimpa>, which we hope will include most of the mini-courses soon.

It is worth noting that the opening ceremony was attended by some authorities from PUCP and representatives from CIMPA and the French Embassy in Lima.

This CIMPA school has been of great importance to the region, as it allowed fruitful interactions among many of professors and students from Latin-America working in Algebraic Geometry. Equally important is the fact that they had the chance to interact with well-known experts from France and Russia, crucial for networking and future joint projects.

From the opinions collected from the participants and lecturers, it is safe to say that this CIMPA School was a success, for it open the way for future interaction between Latin-American researchers and their European counterparts, and it motivated students to start or continue working in Algebraic Geometry. Moreover, since this area of mathematics is at an initial stage in Peru, the CIMPA School has provided many research ideas and projects to be developed by potential undergraduate and graduate students.

Thank you for your time and consideration. I very much appreciate all your help and support with the organization of this successful CIMPA School in Peru.

If you do not want to have the scientific report published, please note this here: I agree that the scientific report will be published