

Scientific Report on XIV Conference “Dr. Antonio Monteiro”

Name of the conference: XIV Congreso “Dr. Antonio Monteiro”

Location: Universidad Nacional del Sur, Bahía Blanca, Argentina

Dates: from May 31 until June 2, 2017

Organizing institutions:

- Department of Mathematics, Universidad Nacional del Sur, Bahía Blanca
- INMABB (UNS-CONICET), Bahía Blanca

Responsible: José Patricio Díaz Varela

Scientific committee:

- Patricio Díaz Varela
- Sergio Celani
- Carles Noguera
- Horacio Rotstein
- Nélida Winzer
- Sebastián Ferraro
- María Julia Redondo
- Carlos Pérez Moreno

Organizing committee:

- Patricio Díaz Varela
- Sheldy Ombrosi
- María Julia Redondo
- Ignacio Viglizzo
- Laura Rueda
- Cecilia Cimadamore
- Rosana Entizne
- Juan Manuel Cornejo
- Sonia Savini
- Diego Castaño
- Fernando Tohmé
- Martín Figallo

Webpage: <http://www.matematica.uns.edu.ar/xivcm>

Activities

There were 3 courses of 4 hours each:

- “Martin’s Axiom”, **Pedro Sánchez Terraf**, Universidad Nacional de Córdoba, Córdoba, Argentina
- “MTL-algebras”, **José Luis Castiglioni**, Universidad Nacional de La Plata, La Plata, Argentina
- “Logics of Formal Inconsistency: Basic systems and nondeterministic semantics”, **Marcelo Coniglio**, Universidade Estadual de Campinas, Campinas, Brasil

About 60 students (both graduate and undergraduate students) attended each of the courses.

There were 10 plenary conferences of 50 minutes each:

- **Daniele Mundici**, Universidad de Florencia, Italy
“MV-algebras beyond algebraic logic”
- **Hanamantagouda Sankappanavar**, State University of New York, New Paltz, USA
“Implication Zroupoids: An abstraction from De Morgan Algebras”
- **Xavier Caicedo**, Universidad de los Andes, Bogotá, Colombia
“Interpolation and Robinson’s lemma in Łukasiewicz predicate logic”
- **David McCarty**, Indiana University, Bloomington, USA
“What is Logical Truth?”
- **Sergio Celani**, Universidad Nacional del Centro de la Provincia de Buenos Aires, Tandil, Argentina
“An algebraic modal logic view on subordination and contact algebras”
- **Joan Gispert**, Universidad de Barcelona, Barcelona, Spain
“Admissible rules and (almost) structural completeness for many-valued logics”
- **Miguel Campercholi**, Universidad de Córdoba, Córdoba, Argentina
“Syntactical reasons”
- **Petr Cintula**, Institute of Information Theory and Automation, Science Academy of the Czech Republic, Praga, Czech Republic
“Lattice-valued predicate logics”
- **Manuela Busaniche**, UNL-IMAL, Santa Fe, Argentina
“A categorical equivalence for distributive Stonean residuated lattices”
- **Carles Noguera**, Institute of Information Theory and Automation, Science Academy of the Czech Republic, Praga, Czech Republic
“Logic and Implication”

The conferences raised interesting discussions about the presented research topics. This benefited the researchers who attended the conference, as well as the rest of the attendees (many of them graduate students), who had the opportunity to get in touch with renowned researchers in the field.

There were short talks of 15 minutes each in different areas of mathematics:

- Algebra (7 talks): Tim Bratten, David Ferreyra, Andrea Gatica, María Valeria Hernández, Mauro Natale, Nilda Pratti, María Julia Redondo.
- Analysis (4 talks): María Eugenia Cejas, Carlos C. Peña, María Belén Picardi, Pablo Sebastián Viola.
- Geometry (4 talks): Claudia Alvarado, Santiago Capriotti, Eduardo García-Toraño Andrés, Natalí R. Vansteenkiste.
- Logic (24 talks): Ismael Calomino, Penélope Cordero, Juan Manuel Cornejo, Rodolfo C. Ertola Biraben, Martín Figallo, Aldo Figallo-Orellano, Carlos Gallardo, Conrado Gomez, Tadeo Gomez, Luciano J. González, Noemi Lubomirsky, Miguel Andrés Marcos, Ma. Paula Menchón, Inés Pascual, Alejandro Petrovich, Exequiel Rivas, Ricardo Oscar Rodriguez, Hernán Javier San Martín, Carlos Scirica, Sara Ugolini, Pablo Ventura, Francisco Antonio Vibrentis, Ignacio Viglizzo, William Zuluaga.
- Applied Mathematics (4 talks): Andrea L. Bel, Romina Cobiaga, Federico Fioravanti, Martín D. Safe.
- Probability and Statistics (1 talk): José Bavio.

Participants

Total number of participants: 176

	<i>Researchers</i>	<i>Graduate students</i>	<i>Undergraduate Students</i>	<i>Total</i>
<i>Bahía Blanca</i>	42	19	60	121
<i>Rest of the country</i>	23	13	8	44
<i>From abroad</i>	10	1	-	11
<i>Total</i>	75	33	68	176

Supporting institutions

<i>Institution</i>	<i>Grant</i>
Secretaría de Ciencia y Tecnología – UNS	AR\$ 33317
CONICET	AR\$ 53000
Agencia de Promoción Científica y Tecnológica	AR\$ 19000
Comisión de Investigaciones Científicas (Provincia de Buenos Aires)	AR\$ 18000
Banco Patagonia S. A.	AR\$ 12000
International Mathematical Union	€ 1000

The organizing committee would like to thank the financial contribution of the institutions mentioned above. In addition, the committee would like to thank specially the Department of Mathematics, the Institute of Mathematics of Bahía Blanca, as well as the selfless collaboration of all of their members in order for the conference to be successful.

Final remarks

This conference has encouraged and strengthened the development of mathematics in Argentina. The discussion environment generated between researchers and students was very fruitful for all attendees. The participants shared also the lunch time in the canteen of the University Club as well as a reception in “Casa de la Cultura” (UNS).

It is worth mentioning the positive attitude of all invited speakers towards interacting with students, which generated a fruitful exchange between them. The environment of the congress was friendly and, as expressed by the participants, greatly exceeded their expectations.

A copy of the handout given to the participants is enclosed. The handout contains the program as well as the summaries of all conferences, courses and talks.