

First Meeting Brazil-Colombia in Logic Universidad Nacional de Colombia at Bogotá, December 14th to 17th, 2021

Primer Encuentro de Lógica Brasil-Colombia - Universidad
Nacional de Colombia sede Bogotá, Diciembre 14 al 17 de 2021

Pedro H. Zambrano^{1,a}

Scientific and Organizing Committee:

- Marcelo Coniglio (IFCH-Unicamp, Campinas, Brazil)
- Hugo L. Mariano (IME-USP, São Paulo, Brazil)
- Ciro Russo (UFBA, Salvador de Bahia, Brazil)
- Samuel G. da Silva (UFBA, Salvador de Bahia, Brazil)
- Andrés Villaveces (UNAL, Bogotá, Colombia)
- Pedro H. Zambrano (UNAL, Bogotá, Colombia)

The mathematical logic interactions between Colombian and Brazilian logicians have been strong for a long time and have a history of friendships and collaborations that go back several decades ago, and this was accomplished through (but not exclusively by) many SLALMs (Simposios Latinoamericanos de Lógica Matemática) and EBLs (Encontros Brasileiros de Lógica).

With this “First Meeting Brazil-Colombia in Logic” which was held on-line from December 14th to 17th, 2021, we intend to initiate a new institutional phase of collaborations and exchange of experiences in areas involving Foundations of Mathematics between researchers and students from Brazil and Colombia.

We were very glad to see (even though, on-line) some of people that have created this deep and rich interaction between Colombian and Brazilian logicians were present in this meeting and that another generation of researchers and students have manifested its intention of carrying out and strengthening this bond.

This meeting had the institutional support from the Faculty of Sciences

¹Departamento de Matemáticas, Universidad Nacional de Colombia, Bogotá, Colombia

^aphzambranor@unal.edu.co

of Universidad Nacional de Colombia at Bogotá, Sociedad Colombiana de Matemáticas (Colombian Mathematical Society) and Sociedade Brasileira de Lógica (Brazilian Logic Society).

The complete program of the meeting can be found at <https://sites.google.com/unal.edu.co/i-enclogbracol/program> and the book of abstracts can be found at https://drive.google.com/file/d/1Jt_sqQteDha4q82B55_Q74wV-X69jW-Z/view?usp=sharing. Since the meeting was held on-line, we recorded most of the talks. We hope to make the recordings available soon.

We enjoyed very interesting talks by the following Plenary Speakers:

- Carlos Di Prisco (UniAndes, Bogotá, Colombia): Variations of the Ramsey property and weak forms of choice.
- Itala D'Ottaviano (CLE-UNICAMP, Campinas, Brazil): On the Ex Falso Sequitur Quodlibet and a history of paraconsistency in the Western thought.
- Francisco Miraglia (IME-USP, São Paulo, Brazil): Special Groups and Quadratic Forms over Rings with non zero-divisor Coefficients.
- Carlos Uzcátegui (UIS, Bucaramanga, Colombia): Selectors, Colorings and reconstructions.

Also, we have nice talks by the following Invited Speakers:

- Rodrigo Freire (UnB, Brasília, Brazil): An axiomatic approach to forcing in a general setting (joint work with Peter Holy).
- João Marcos (UFRN, Natal, Brazil): On logical theories containing assertions and denials.
- Diego Mejía (Shizuoka University, Japan): Variations of the negation of Riis' axiom (joint work with Sakaé Fuchino).
- Diana Montoya (University of Vienna, Austria): Singular cardinals and cardinal characteristics.

The following researchers provided us the following nice and interesting tutorials:

- Elaine Pimentel (UFRN, Natal, Brazil): A tour on ecumenical systems.
- Darío García (UniAndes, Bogotá, Colombia): Tutorial on model theory of pseudofinite structures.

The meeting had special thematic sessions, where we accepted 25 minutes contributed talks (20 minutes presentation + 5 minutes for questions). We accepted submissions from all areas related to Logic (including Mathematical Logic, Philosophy and Computer Science), among the following topics:

- Categorical and Algebraic Logic.
- General Logic.
- Model Theory.
- Non-classical Logics.
- Proof Theory.
- Set Theory.

Also, we had a poster session. The accepted posters for the meeting can be found at <https://sites.google.com/unal.edu.co/i-enclogbracol/posters>.

This meeting had 131 registered participants, including researchers not only from Brazil and Colombia but another countries like Argentina, Perú and Japan.

This was a first step towards increasing the collaboration between Brazilian and Colombian researchers in Mathematical Logic. Nowadays, this interaction has included tutorials, academical visits, co-advising undergraduate and graduate students and reviewing thesis and dissertations in both countries.

Even though this first edition of the Meeting Brazil-Colombia in Logic was held on-line, Universidad Nacional de Colombia at Bogotá provided the institutional support for the organization of this meeting. For this reason, we are glad to dedicate this issue of Boletín de Matemáticas as the Proceedings of the First Meeting Brazil-Colombia in Logic.