

in the true sense, the event was a celebration of philosophy and human thought in a complex form.

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References

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Two Conferences on Logic Held in Bochum¹

Two interesting and well-organized conferences on logic took place at the Ruhr-University of Bochum at the beginning of May. The first of them, *PhDs in Logic IX* (2 – 4 May 2017) was the ninth edition of annual conferences for graduate students working in the field of (mathematical, philosophical, computational) logic, this year organized by Christopher Badura, AnneMarie Borg, Jesse Heyninck, and Daniel Skurt. The second one, *Logic in Bochum III* (5 – 6 May 2017) was the workshop organized by the *Research Group for Non-Monotonic Logic and Formal Argumentation* (AnneMarie Borg, Christian Straßer, Dunja Šešelja, Jesse Heyninck and Pere Pardo). To the delight of the author of this report, the latter conference especially focused on deontic logic this year.

The former conference hosted six (!) brilliant keynote speakers, who presented tutorials related to various areas of logic. Christian Straßer gave a tutorial on *Non-monotonic logic*, keeping the talk gentle and touching deep issues in the nonmonotonic logics at the same time. María Manzano gave tutorials *Leon Henkin on Completeness and Identity, Equality, Nameability and Completeness*. The former tutorial was concerned with Henkin's proofs of Completeness (for type theory, first

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order logic, and propositional type theory). The latter tutorial was focused on the notions of identity and equality. Petr Cintula presented *A Gentle Introduction to Abstract Algebraic Logic I & II*, talks not very gentle to philosophers, but nevertheless interesting ones, explaining an important branch of logic. João Marcos introduced us to *Classic-like Analytic Tableaux for Non-Classical Logics* (non-classical understood as many-valued). Gabriella Pigozzi gave two intriguing tutorials on *The Logic of Group Decision: An Introduction to Judgment Aggregation*. How does a group decide on some issue, such as whether to hire a researcher? Various approaches were presented. Heinrich Wansing presented a talk on *Bi-Connexive Variants of Heyting-Brouwer Logic*.

Twenty contributed talks were manifold, faithful to the currently reigning era of logical pluralism. Talks given revolved around topics such as proof mining, intuitionistic logic, many valued logics, metamathematics and metalogic, deontic logic, formal semantics, modal logics, and (hyper)graph theory.

The latter conference hosted four excellent keynote speakers: Gabriella Pigozzi, Allard Tamminga, João Marcos, and Niko Strobach. Gabriella Pigozzi presented a talk on AGM contraction and revision rules using input/output logic: *Changing Norms: A Framework for Changing Rules*. Allard Tamminga in his talk *Collective Obligations and Obligations of Individuals* argued for the need to distinguish individual obligations from collective obligations. The general idea was that a group adopts a group plan coordinating the actions of its members. João Marcos gave a talk *Do Not be Afraid of the Unknown*, presenting a general logical framework based on different cognitive attitudes of agents concerning rejection or acceptance. Niko Strobach presented the last talk of the conference, *Difference – Classical and Paraconsistent*. The talk evolved around the two notions: difference and identity. It was suggested to treat the notion of difference as primitive, thus contrasting the approach from Priest's book *One*.

The first day of the conference was devoted (mainly) to deontic logic. The first contributed talk given by Ilaria Canavotto was concerned with multi-agent dynamic action logic. The second contributed talk presented by Roberto Cuini was focused on modelling obligations-related deliberation by epistemic agents. The third talk by Federico L. G. Faroldi ventured towards developing a first-order hyperintensional deontic logic. Deontic section was closed by Frederik Van De Putte and his talk aiming to model permitted choices of an agent in a generalised stit logic. Mathieu Beirlaen gave the last talk of the first day on abductive and inductive reasoning, using the framework of adaptive logics. Grigory Olkhovikov gave the first contributed talk of the second day on justification stit logic. Heinrich Wansing

talked about modal extensions of first-degree entailment logic. The last contributed talk given by Sergey Drobyshevich was focused on intuitionistic modal logic.

Talks presented on both of the conferences were followed by a lively debate, containing ingenious questions and suggestions. Participants were sharing ideas not only throughout the conference, but also during the coffee breaks, lunch breaks and conference dinners, what serves as an evidence of genuine interest in the topics discussed. In sum, these two conferences were intriguing, pleasant, and important academic events: a pleasure for any logician.

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