

Second International Workshop *Inferences and Proofs*

December 17 2019 – from 9 a.m. to 5.15 p.m.

Maison de la Recherche, salle 2.44, 29 Avenue Robert Schuman, 13100, Aix-en-Provence

Invited speakers

Cesare Cozzo – “La Sapienza” University of Rome

Enrico Moriconi – Pisa University

Dag Prawitz – Stockholm University

Göran Sundholm – Leiden University

Myriam Quatrini – Aix-Marseille University

Gabriele Usberti – Siena University

Presentation

Why and how do valid inferences have the power to compel us to accept their conclusion, once their premises are accepted as justified? What is the source of such a transmission of justification? Where does this epistemic power stem from? And, last but not least, how should we formally account for this fundamental phenomenon? Logic deals with these questions at least since Aristotle’s well-known definition of a syllogism as that discourse in which, certain things being laid down, something follows of *necessity* from them. In recent years, however, various constructivist approaches, originating from the intuitionistic tradition, from proof-theory and from Dummett’s investigations into theories of meaning, seem to have shed a new light upon the issue. In this framework, we cannot fail to mention Jean-Yves Girard’s, Per Martin-Löf’s and Dag Prawitz’s essential contributions.

This workshop follows the one titled *Inferences and Proofs*, held in Marseille from May 31 to June 1st 2016 – that in turn yielded the *Inferences and Proofs* special issue of *TOPOI*, guest-edited by the organizers Gabriella Crocco and Antonio Piccolomini d’Aragona. Raising more or less the same questions as its predecessor, *Inferences and Proofs 2* is nonetheless enriched by the results achieved during the last three years.

Program

Dag Prawitz (Stockholm University) – 9 a.m./10 a.m.

Some principles concerning the validity of inferences and arguments

Coffee break 10 a.m./10.15 a.m.

Göran Sundholm (Leiden University) – 10.15 a.m./11.15 a.m.

The Completeness Theorem? So what!

Gabriele Usberti (Siena University) – 11.15 a.m./12.15 a.m.

A Notion of Internalistic Logical Validity

Lunch break 12.15 a.m./2 p.m.

Cesare Cozzo (“La Sapienza” University of Rome) – 2 p.m./3 p.m.

The fallibility of deduction

Coffee break 3 p.m./3.15 p.m.

Enrico Moriconi (Pisa University) – 3.15 p.m./4.15 p.m.

From proof-objects to grounds

Myriam Quatrini (Aix-Marseille University) – 4.15 p.m./5.15 p.m.

Ludics seen as a logical theory relevant for computational issues and hereafter

Organized by

Gabriella Crocco (Aix-Marseille University)

Antonio Piccolomini d'Aragona (Aix-Marseille University – “La Sapienza” University of Rome)

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