

Preface

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Received: 7 November 2007 / Accepted: 7 November 2007 / Published online: 11 April 2008
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The workshop *Towards a New Epistemology of Mathematics* (PhiMSAMP-1) took place September 14–16, 2006, at the *Freie Universität Berlin*; it was a satellite workshop of the conference **GAP.6**, the sixth in a tri-annual series of conferences organized by the *Gesellschaft für Analytische Philosophie*. The acronym PhiMSAMP-1 derives from the fact that this workshop was the first public activity of the scientific network PhiMSAMP (the reader is referred to the end of § 1 of the introductory article to this special issue by the editors).

We were very pleased with the international response that our call for papers found; we received 24 submissions from eight countries of which fifteen were selected for inclusion to the workshop. Supplementing the talks corresponding to the

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papers in this special issue, there was an interesting and thought-provoking programme of other presentations that we list here in alphabetic order: Tatiana Arrigoni, *Towards a New Philosophy of Set Theory*; David Corfield, *Why and how to write a history of higher-dimensional algebra*; Leo Corry, *From Algebra (1895) to Moderne Algebra (1930): Changing Conceptions of a Discipline. A Guided Tour Using the Jahrbuch über die Fortschritte der Mathematik*; Curtis Franks, *David Hilbert as an Epistemological Naturalist*; Valeria Giardino, *Mathematical perception and diagrams*; Katja Lengnink, *Didactical perspectives on mathematics and its philosophical implications*; Felix Mühlhölzer, *Mathematics and the Lifeworld*; Oliver Petersen, *Some Wittgensteinian Reflections on the Jaffe/Quinn-Thurston Debate on Theoretical Mathematics and Mathematical Proof*; Andrei Rodin, *From Set-Theoretic Foundations to Categorical Integration*; Michael Stöltzner, *On the Ontology of Theoretical Mathematics*; Niko Strobach, *Teaching logic with good conscience—Experiences in moderate formalism*.

The close integration with GAP.6 and links to the related workshop *Rudolf Carnap* (organized by Steve Awodey and Bernd Buldt) resulted in the participation of many more researchers and extremely fruitful discussions. A joint excursion with the Carnap workshop to the *Einsteinhaus* in Caputh concluded our meeting.

Everyone who had presented a paper was invited to submit a revised version. The submitted papers were then thoroughly refereed; the result is this special issue of *Erkenntnis*. We decided to prefix the seven papers with an introductory paper in which we not only introduce the individual papers but also explain the background of and the motivation for the workshop and the supporting PhiMSAMP network.

During the preparation of these proceedings, we had the able help of 21 experts in the field who produced detailed referee reports. Many of the reports contained numerous suggestions for improvement; the hard work of our referees is much appreciated! In addition, our thanks go the Editor-in-Chief of *Erkenntnis*, Hans Rott, for providing us with a broad, international audience.

The main financial sponsor of the workshop was the *Wissenschaftliches Netzwerk PhiMSAMP* (funded by the DFG, the *Deutsche Forschungsgemeinschaft*, MU1816/5-1), which just held its second workshop PhiMSAMP-2. We should also like to thank the *Gesellschaft für Analytische Philosophie* and IPFW (*Indiana University—Purdue University Fort Wayne*) for additional financial support. We owe particular thanks to the organizers of GAP.6 for providing the necessary conference infrastructure, and would like to thank Helen Bohse and her team for much-valued local support.

List of Participants of PhiMSAMP-1

Tatiana Arrigoni, Alan Baker, Kajsa Bråting, Joachim Bromand, Bernd Buldt, David Corfield, Leo Corry, Keith Devlin, Kenny Easwaran, Curtis Franks, Valeria Giardino, M. E. Hahn, Walter Hoering, Jan Janzen, Brendan Larvor, Katja Lengnink, Johannes Lenhard, Nikola Leufer, Kristina Liefke, Benedikt Löwe, Holger Lyre, Felix Mühlhölzer, Heribert Müller, Thomas Müller, Henrik Nordmark, Johanna Pejlare, Oliver Petersen, Esther Ramharter, Andrea Reichenberger, Birgit

Richter, Andrei Rodin, Georg Schiemer, Dirk Schlimm, Franziska Schulz, Irina Starikova, Sören Stenlund, Michael Stöltzner, Niko Strobach, Boris Tschirschwitz, Rüdiger Vaas, Eva Wilhelmus, Michael Wright.

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