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978-0-521-11081-5 - Logic Colloquium 2006

Edited by S. Barry Cooper, Herman Geuvers, Anand Pillay and Jouko Vaananen

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Logic Colloquium 2006

The Annual European Meeting of the Association for Symbolic Logic, also known as the Logic Colloquium, is among the most prestigious annual meetings in the field. The current volume, *Logic Colloquium 2006*, with contributions from plenary speakers and selected special session speakers, contains both expository and research papers by some of the best logicians in the world. The most topical areas of current research are covered: valued fields, Hrushovski constructions (from model theory), algorithmic randomness, relative computability (from computability theory), strong forcing axioms and cardinal arithmetic, and large cardinals and determinacy (from set theory), as well as foundational topics such as algebraic set theory, reverse mathematics, and unprovability.

This volume will be invaluable for experts as well as those interested in an overview of central contemporary themes in mathematical logic.

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ASSOCIATION FOR SYMBOLIC LOGIC



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INTRODUCTION

These are the proceedings of the Logic Colloquium 2006, which was held July 27–August 2 at the Radboud University of Nijmegen in the Netherlands.

The Logic Colloquium is the annual European conference on logic, organized under the auspices of the Association for Symbolic Logic (ASL). The program of LC2006 consisted of a mixture of tutorials, invited plenary talks, special sessions, and contributed talks. Finally, there was a plenary discussion on Gödel's legacy, on the occasion of the 100th birthday of the great logician Kurt Gödel, moderated by William Tait. The program gave a good overview of the recent research developments in logic.

The tutorial speakers were Downey, Moerdijk, and Veličković. The invited plenary speakers were Abramsky, Arslanov, Friedman, Goldstern, Hrushovski, Koenigsmann, Lewis, Montalbán, Palmgren, Pohlers, Schimmerling, Steel, Tait, and Wagner. The five special sessions were devoted to computability theory, computer science logic, model theory, proof theory and type theory, and set theory.

For these proceedings we have invited the tutorial and plenary invited speakers—as well as one invited speaker from each of the special sessions—to submit a paper. All papers have been reviewed by independent referees. This has given rise to these proceedings, which give a good overview of the content and breadth of the Logic Colloquium 2006 and of the state of the art in logic at present.

The Editors
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