Preface

The Algorithmic Number Theory Symposia began in 1994 at Cornell University in Ithaca, New York to recognize the growing importance of algorithmic work in the theory of numbers. The subject of the conference is broadly construed to encompass a diverse body of mathematics, and to cover both the theoretical and practical advances in the field. They have been held every two years since: in Bordeaux (Université Bordeaux I) in 1996, Portland (Reed College) in 1998, Leiden (Universiteit Leiden) in 2000, and the present conference hosted by the Magma Computational Algebra Group at the University of Sydney.

The conference program included invited talks by Manjul Bhargava (Princeton), John Coates (Cambridge), Antoine Joux (DCSSI Crypto Lab), Bjorn Poonen (Berkeley), and Takakazu Satoh (Saitama), as well as 34 contributed talks in various areas of number theory. In addition to the mathematical program, the conference included a special dinner to honour Alf van der Poorten of Macquarie University, on the occasion of his 60th birthday.

Each paper was reviewed by at least two experts external to the program committee and the selection of papers was made on the basis of these recommendations. We express our appreciation to the 66 expert referees who provided reports on a very tight schedule. Refereeing of the submission from a member of the Magma group was organized by Joe Buhler.

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