



# **Diophantine Approximation: Lectures given at the C.I.M.E. Summer School held in Cetraro, Italy, June 28 - July 6, 2000 (Lecture Notes in Mathematics)**

*David Masser, Yuri V. Nesterenko, Hans Peter Schlickewei, Wolfgang M. Schmidt, Michel Waldschmidt*

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Diophantine Approximation is a branch of Number Theory having its origins in the problem of producing "best" rational approximations to given real numbers. Since the early work of Lagrange on Pell's equation and the pioneering work of Thue on the rational approximations to algebraic numbers of degree  $\geq 3$ , it has been clear how, in addition to its own specific importance and interest, the theory can have fundamental applications to classical diophantine problems in Number Theory. During the whole 20th century, until very recent times, this fruitful interplay went much further, also involving Transcendental Number Theory and leading to the solution of several central conjectures on diophantine equations and class number, and to other important achievements. These developments naturally raised further intensive research, so at the moment the subject is a most lively one. This motivated our proposal for a C. I. M. E. session, with the aim to make it available to a public wider than specialists an overview of the subject, with special emphasis on modern advances and techniques. Our project was kindly supported by the C. I. M. E. Committee and met with the interest of a large number of applicants; forty-two participants from several countries, both graduate students and senior mathematicians, intensively followed courses and seminars in a friendly and co-operative atmosphere. The main part of the session was arranged in four six-hours courses by Professors D. Masser (Basel), H. P. Schlickewei (Marburg), W. M. Schmidt (Boulder) and M. Waldschmidt (Paris VI). This volume contains expanded notes by the authors of the four courses, together with a paper by Professor Yu. V.

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