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# NEW TRENDS FOR HAMILTONIAN SYSTEMS AND CELESTIAL MECHANICS

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Editors

**Ernesto A Lacomba**

*Universidad Autonoma Metropolitana - Iztapalapa, Mexico*

**Jaume Llibre**

*Universitat Autonoma de Barcelona, Bellaterra, Barcelona, Spain*



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# PREFACE

The papers in this volume are an outgrowth of the second "International Symposium on Hamiltonian Systems and Celestial Mechanics" which was held in Cocoyoc, Morelos, México from September 13 to 17, 1994. The proceedings of the first symposium were published in Volume 4 of this series under the title "Hamiltonian Systems and Celestial Mechanics". The Scientific Organizers of the Conference were Ernesto A. Lacomba and Jaume Llibre and the members of the Technical Organizing Committee were Joaquín Delgado, Ernesto Pérez-Chavela, from the Universidad Autónoma Metropolitana, México and Kurt B. Wolf on the part of CIFMA (Centro Internacional de Física y Matemáticas Aplicadas, Cuernavaca, México). Special thanks go to J. Delgado, for his effort and the time spent in helping with the edition of these proceedings.

The second symposium gathered together 46 researches (14 from México and 32 from abroad) in addition to 10 graduate students, 38 lectures were given during 32 session hours. The emphasis of all the talks was on Hamiltonian Dynamics and Celestial Mechanics and their relationship to several aspects of topology, mechanics and dynamical systems in general. All speakers were invited to submit a contribution to these proceedings. All papers that were received went through the refereeing process typical of a mathematical research journal and those that were accepted form the present volume.

This symposium would not have been realized without the initial support of the CONACYT (México) grant 1772-E9210. The organization and realization of the meeting was possible due to a lot of work on the part of a number of people. Special thanks are due to K. B. Wolf and Petra Seligman from the CIFMA who took care with great enthusiasm of the logistic administration of the meeting and many others things. We also thank the economical support provided by the following institutions. From México the Universidad Autónoma Metropolitana; from Spain CIRIT and DGICYT; and from the international agency Organization of American States. And last but not least, the participants at the conference must be thanked for offering everyone a week-long intense and highly interesting mathematical experience.

Ernesto A. Lacomba and Jaume Llibre

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