

数理解析研究所講究録 1493

複素漸近解析の新展開と応用
— 力学系, 総和法, 連分数をめぐって —

京都大学数理解析研究所

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Preface

This issue is the proceedings of the workshop

New Trends and Applications of Complex Asymptotic Analysis
- around dynamical systems, summability, continued fractions -

held at RIMS (Research Institute for Mathematical Sciences) of Kyoto University from May 30, 2005 to June 3, 2005 as one of the research projects of RIMS. The main object of this workshop was to discuss the resurgent theory, small divisors problems and related problems in partial differential equations and dynamical systems. We hoped that this workshop would give a chance of a collaboration among those researchers who were interested in these problems and phenomena in dynamical systems and complex asymptotic analysis.

There were five consecutive lectures and six one hour talks. They were so prepared that the problems in each subject were clear not only to specialists but also to those without special knowledge of the subject. We hope that every contribution in this issue will be a good introduction to or a description of the subject which might be hard to understand for beginners. We also would like to appreciate all lecturers and contributors for their nice works.

Finally, we would like to express our sincere thanks to all who supported this workshop, especially to Research Institute for Mathematical Sciences and its staffs and Prof. Y. Takei (RIMS, Kyoto University) for the financial support.

May, 2006

Masafumi Yoshino and Hidekazu Ito

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2005年5月30日～6月3日

研究代表者 吉野 正史 (Masafumi Yoshino)

副代表者 伊藤 秀一 (Hidekazu Ito)

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