RIMS Kôkyûroku Bessatsu B76

On the examination and further development of inter-universal Teichmüller theory

edited by Shinichi Mochizuki

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inter-universal Teichmüller theory

March 9〜20, 2015

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Research Institute for Mathematical Sciences

Kyoto University, Kyoto, Japan

Preface

The present volume consists of two papers that summarize the content of a two-week long workshop held at RIMS, Kyoto University, during the period March 9 - 20, 2015. The first talk, given by Yuichiro Hoshi (in Japanese) during the morning of March 9, 2015, discussed the work of Hoshi on the mono-anabelian reconstruction of number fields and also served as a sort of introduction to various anabelian techniques that played an important role in the talks of Yamashita. This work of Hoshi is exposed in the first paper of the present volume. The remaining talks of the workshop were given by Go Yamashita (in Japanese) and constituted a comprehensive introduction to inter-universal Teichmüller theory. The second paper of the present volume (written by Hoshi in Japanese) covers roughly similar material (although organized in a somewhat different way) to this series of talks by Yamashita.

As the organizer of the workshop, I would like to express my deepest appreciation to Go Yamashita and Yuichiro Hoshi for the tremendous amount of time and effort that they devoted to making the workshop a success, as well as to RIMS for the financial and infrastructural support that made the workshop possible in the first place.

Shinichi Mochizuki
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