

Preface

This volume is a collection of eighteen research and survey papers written by speakers of the conference of the 12th Mathematical Society of Japan, Seasonal Institute (MSJ-SI), titled as

“Stochastic Analysis, Random Fields and Integrable Probability,”

31st July–9th August 2019

Kyushu University, Fukuoka, Japan.

MSJ-SI is an official workshop of the Mathematical Society of Japan (MSJ), which has been held annually since 2008. Each year, the workshop’s topic is chosen by MSJ, and leading mathematicians worldwide are invited accordingly.

The conference focuses on recent progress in stochastic analysis, random fields, and integrable probability. Six course lectures by

Louigi Addario-Berry (McGill University)

Alexander I. Bufetov (Aix-Marseille Université)

Ivan Corwin (Columbia University)

Frank den Hollander (Universiteit Leiden)

Gregory F. Lawler (The University of Chicago)

Grégory Miermont (École Normale Supérieure de Lyon),

Eighteen invited talks, seven contributed talks, and sixteen poster presentations were presented along with active and fruitful discussion by 118 participants.

The conference was organized by the Society’s committee. The member of the committee consists of Yuzuru Inahama, Takashi Kumagai, Hirofumi Osada, Tomohiro Sasamoto, Tomoyuki Shirai, and Hideki Tanemura—in collaboration with the local organizing committee—Syota Esaki, Yuu Hariya, Masato Hoshino, Yuzuru Inahama, Masato Shinoda, and Tomoyuki Shirai.

The conference was supported by the Mathematical Society of Japan, Faculty of Mathematics (Kyushu University), Institute of Mathematics for Industry (Kyushu University), and Japan Society for the Promotion of Science, Grand-in-Aid for Scientific Research (S) JP16H06338 (PI: H. Osada), Scientific Research (A) JP17H01093 (PI: T. Kumagai), Scientific Research (A) JP19H00643 (PI: M. Hino).

We thank all the speakers and the participants for their invaluable contributions, making the conference most successful. We also thank all the referees for their help with this volume by carrying out painful but excellent jobs. Besides, we thank Tsubura Imabayashi and Seiko Sasaguri for their contributions to the workshop. Finally, we thank Ryuichi Honda for his editing work on the proceedings.