

PREFACE

The present issue is the 12th volume of the Josai Mathematical Monographs (JMM). JMM is founded by the Graduate School of Science of Josai University (GSSJU), and appears yearly. JMM aims at formal as well as informal information on developments in mathematical research by the faculty of mathematics in GSSJU and others.

This issue consists of ten refereed academic papers addressing topics on differential equations and representation theory. Some of the authors gave a talk related to their paper at JMM Workshop on Differential Equations and Representation Theory which was held at the Tokyo Kioicho Campus of Josai University (JU) on December 26-27 in 2018. This workshop and this issue is dedicated to Professor Toshio Oshima in honor of his 70th birthday. The editors sincerely thank the authors and speakers for submitting excellent papers and giving interesting talks at the workshop and hope that this issue will provide the reader with a good view of the present status of differential equations and representation theory.

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The editors wish that the publication of the Josai Mathematical Monographs will be more fruitful in the future. The papers in some previous volumes of JMM are available at the website of Mizuta memorial library: http://libir.josai.ac.jp/il/meta_pub/G0000284repository.

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Takeyoshi Kogiso (Editor in Chief)