

NAGOYA MATHEMATICAL JOURNAL

Volume 215

September 2014

CONTENTS

Yifan Yang Modular forms of half-integral weights on $SL(2, \mathbb{Z})$	1
Jerry L. Bona, Jonathan Cohen, and Gang Wang Global well-posedness for a system of KdV-type equations with coupled quadratic nonlinearities	67
Takahiro Hasebe and Hayato Saigo On operator-valued monotone independence	151
Luis Núñez-Betancourt and Emily E. Witt Generalized Lyubeznik numbers	169
Caucher Birkar and Zhengyu Hu Polarized pairs, log minimal models, and Zariski decompositions	203
Serge Randriambololona Two remarks on polynomially bounded reducts of the restricted analytic field with exponentiation	225

NAGOYA MATHEMATICAL JOURNAL

Editors

Anne De Bouard
École Polytechnique, CMAP, Palaiseau

Kazuhiro Fujiwara
Nagoya University

Guy Henniart
Université Paris-Sud

Lars Hesselholt (*Managing Editor*)
Nagoya University

Osamu Iyama
Nagoya University

Shigeyuki Kondo
Nagoya University

François Loeser
Université Pierre et Marie Curie, Paris

Shin Nayatani
Nagoya University

Ken-ichi Yoshida
Nihon University, Tokyo

Associate Editors

Gérard Besson
Université Joseph Fourier, Grenoble

Jerry L. Bona
University of Illinois, Chicago

Kenji Fukaya
SCGP, Stony Brook University

Akihiko Gyoja
Nagoya University

Ko Honda
University of California, Los Angeles

Kiran S. Kedlaya
University of California, San Diego

Shigefumi Mori
RIMS, Kyoto University

Shigeru Mukai
RIMS, Kyoto University

Junjiro Noguchi
University of Tokyo

Toshiaki Shoji
Tongji University

Akio Tamagawa
RIMS, Kyoto University

Fred Weissler
Université Paris-Nord