

# CONTENTS

Preface	
Kazuhiko AOMOTO	1
Monodromy Problem Related to Wu–Sutherland Equations	
Jan Felipe Van DIEJEN and Anatol KIRILLOV	11
A Remark on the Harish–Chandra Series for Hyperboloids	
Kazuhiro HIKAMI	16
Quantum Integrable Lattice Field Theory and Quantum Dilogarithm Functions	
Kazumoto IGUCHI	30
A Theory of Interacting Many Body Systems with Exclusion Statistics: Origin of Exclusion Statistics, Haldane Liquids. Sutherland–Wu Equations, Grand Partition Function and Lee–Yang Theorem	
Noriaki KAWANAKA	70
Symmetric Spaces over Finite Fields, Frobenius–Schur Indices, and Symmetric Function Identities	
Anatol KIRILLOV	85
Ubiquity of Kostka Polynomials	
Stephen MILNE	201
Transformations of $U(n+1)$ multiple basic hypergeometric series	
Hitoshi MURAKAMI	244
Kashaev’s Invariant and the Volume of a Hyperbolic Knot after Y. Yokota	
Michimoto NISHIZAWA and Kimio UENO	271
Integral Solutions of Hypergeometric $q$ –Difference Systems with $ q  = 1$	

Masatoshi NOUMI and Yasuhiko YAMADA Birational Weyl group actions arising from a nilpotent Poisson algebras	287
Masa-Hiko SAITO and Hiroshi UMEMURA Painlevé Equations and Deformations of Rational Surfaces with Rational Double Points	320
Makoto TANEDA Representation of Umemura Polynomials for the Sixth Painlevé Equation by the Generalized Jacobi Identities	366
Paul TERWILLINGER Two Relations that Generalized the $q$ -Serre Relations and the Dolan-Grady Relations	377