

Table of Contents

PREFACE.....	vii
PART I: QUANTUM MATHEMATICS	
P. AKUESON and D. GUREVICH / Dual Quasitriangular Structures Related to the Temperley–Lieb Algebra.....	1
J. DONIN / On the Quantization of Quadratic Poisson Brackets on a Polynomial Algebra of Four Variables.....	17
D. GUREVICH, J. DONIN and V. RUBTSOV / Two Types of Poisson Pencils and Related Quantum Objects.....	27
V. NAZAIKINSKII and B. STERNIN / Wave Packet Transform in Symplectic Geometry and Asymptotic Quantization.....	47
D.P. ZHELOBENKO / On Quantum Methods in the Classical Theory of Representations.....	71
PART II: HYPERGROUPS	
V.M. BUCHSTABER and E.G. REES / Multivalued Groups, n -Hopf Algebras and n -ring Homomorphisms.....	85
W.C. CONNETT and A.L. SCHWARTZ / Hypergroups and Differential Equations.....	109
O. GEBUHRER / The Haar Measure on Locally Compact Hypergroups ..	117
M.M. NESSIBI and M. SIFI / Laguerre Hypergroup and Limit Theorem..	133
B.P. OSILENKER / The Representation of the Reproducing Kernel in Orthogonal Polynomials on Several Intervals.....	147
PART III: HOMOGENIOUS SPACES AND LIE ALGEBRAS AND SUPERALGEBRAS	
B. GILLIGAN / Homology Invariants of Homogeneous Complex Manifolds	163
B. KOMRAKOV and A. TCHURYUMOV / Micromodules.....	181

A.L. ONISHCHIK / A Spectral Sequence for the Tangent Sheaf Cohomology of a Supermanifold	199
Yu.P. RAZMYSLOV / On a Duality of Varieties of Representations of Ternary Lie and Super Lie Systems	217
C. ROGER / Various Aspects and Generalizations of the Godbillon–Vey Invariant	231
G. ROOS / Volume of Bounded Symmetric Domains and Compactification of Jordan Triple Systems	249
PART IV: REPRESENTATIONS	
A.A. ARTEMOV / Asymptotic Behavior of the Poisson Transform on a hyperboloid of one sheet	261
G. VAN DIJK and S.C. HILLE / Maximal Degenerate Representations, Berezin Kernels and Canonical Representations	285
A.S. MISHCHENKO and M. MOHAMMAD / Asymptotic Representation of Discrete Groups	299
V.F. MOLCHANOV / Maximal Degenerate Series Representations of the Universal Covering of the Group $SU(n, n)$	313
A.I. SHTERN / Almost Representations and Quasi-Symmetry	337
PART V: DIFFERENTIAL EQUATIONS	
A.V. BOLSINOV and A.T. FOMENKO / Orbital Isomorphism between Two Classical Integrable Systems	359
E.E. DEMIDOV / Noncommutative Deformation of the KP Hierarchy and the Universal Grassmann Manifold	383
B. DUBROV and B. KOMRAKOV / Symmetries of Completely Integrable Distributions	393
I.S. KRASIL'SHCHIK / Algebras with Flat Connections and Symmetries of Differential Equations	407
A.M. LUKATSKY / On the Geometry of Current Groups and a Model of the Landau–Lifschitz Equation	425
O.G. SMOLYANOV / Change Variable Formulas for Gaussian Integrals over Spaces of Paths in Compact Riemannian Manifolds	435