

Contents

Preface	ix
List of Participants	xi
Construction of graded differential algebra with ternary differential NADEZDA BAZUNOVA	1
Calculation of the universal Drinfeld twist for quantum $\mathfrak{su}(2)$ CHRISTIAN BLOHMANN	11
Thoughts on membranes, matrices and non-commutativity MARTIN CEDERWALL	21
Stable quantum relativistic kinematics CHRYSSOMALIS CHRYSSOMALAKOS and ELIAS OKON	31
Cohomology of crossed algebras ALEXEI DAVYDOV	41
Kac-Moody algebras and the cde-triangle TORSTEN EKEDAHL	49
Discretized Virasoro algebra LUDWIG D. FADDEEV	59
Multiplication formulae for the elliptic gamma function GIOVANNI FELDER and ALEXANDER VARCHENKO	69
New approach to Hermitian q -differential operators on \mathbb{R}_q^N GAETANO FIORE	75
Picard groups in rational conformal field theory JÜRIG FRÖHLICH, JÜRIGEN FUCHS, INGO RUNKEL, and CHRISTOPH SCHWEIGERT	85
On a class of representations of quantum groups ANTON GERASIMOV, SERGEY KHARCHEV, DMITRY LEBEDEV, and SERGEY OBLEZIN	101
Shapovalov forms for Poisson Lie superalgebras MARIA GORELIK and VERA SERGANOVA	111
Triangular Poisson structures on Lie groups and symplectic reduction TIMOTHY J. HODGES and MILEN YAKIMOV	123

Vertex operator algebras, fusion rules and modular transformations YI-ZHI HUANG	135
Depth two and the Galois coring LARS KADISON	149
Examples of Peirce decomposition of generalized Jordan triple system of second order — Balanced cases NORIAKI KAMIYA	157
Graded representations of graded Lie algebras and generalized representations of Jordan algebras ISSAI KANTOR and GREGORY SHPIZ	167
Dynamical Yang-Baxter equation and quantization of certain Poisson brackets EUGENE KAROLINSKY, ALEXANDER STOLIN, and VITALY TARASOV	175
Braiding for quantum gl_2 at roots of unity RINAT KASHAEV and NICOLAI RESHETIKHIN	183
Solving Baxter's TQ-equation via representation theory CHRISTIAN KORFF	199
Noncommutative geometry and quantum field theory PETR P. KULISH	213
Conformal field theory and the solution of the (quantum) elliptic Calogero-Sutherland system EDWIN LANGMANN	223
Quasi-Lie algebras DANIEL LARSSON and SERGEI D. SILVESTROV	241
Time-space and space-times OLAV ARNFINN LAUDAL	249
Two-parameter extensions of the κ -Poincaré quantum deformation JERZY LUKIERSKI and VLADIMIR D. LYAKHOVSKY	281
The index problem on manifolds with edges VLADIMIR E. NAZAIKINSKII, ANTON YU. SAVIN, BERT-WOLFGANG SCHULZE, and BORIS YU. STERNIN	289
On C^* -algebras generated by some deformations of CAR relations DANIIL PROSKURIN, YURIĬ SAVCHUK, and LYUDMILA TUROWSKA	297
Krichever-Novikov algebras and their representations OLEG K. SHEINMAN	313
Quantum groups and bounded symmetric domains SERGEY D. SINEL'SHCHIKOV and LEONID VAKSMAN	323
Quantization is deformation DANIEL STERNHEIMER	331

Monoidal Morita equivalence KORNÉL SZLACHÁNYI	353
Fortieth anniversary of extremal projector method for Lie symmetries VALERIY N. TOLSTOY	371