

VIII. International Workshop
LIE THEORY AND
ITS APPLICATIONS IN PHYSICS

15 - 21 June 2009, [Varna](#) , [Bulgaria](#)

Titles of Talks

Name	Title
Accardi, Luigi	Unitary Representations of *-Lie Algebras and Quantum Probability
Aizawa, Naruhiko	Noncommutative Complex Manifolds via Quantum (Super) Group Coherent States
Bakalov, Bojko	W-Constraints for Simple Singularities
Bouarroudj, Sofiane	Deformations of the Lie algebra $\mathfrak{o}(5)$ in characteristics 3 and 2
Boukas, Andreas	Central Extensions of the Heisenberg Algebra
Catto, Sultan	Effective Hamiltonian of the Relativistic Quark Model

Cederwall, Martin	Operators on Pure Spinor Spaces
Cerbu, Marcela	The Excitation of Two Individual Atoms in the Rydberg Blockade
Cerbu, Olga	Categorical Aspects of the Semireflexivity
Dambroise, Jennie	One Correspondence Used in Reformulating Einstein Equations for Various Scalar Field Cosmologies.
De Guise, Hubert	A General Approach to Quasidistributions: the Case of Multiplicity-Free Irreps of $SU(N)$
Dolguntseva, Irina	Extensions of Associative Conformal Algebras $Cend_n$ and Cur_n
Dragovich, Branko	On p-Adic Sector of Adelic Strings
Georgiev, Lachezar	Monodromy Analysis of the Computational Power of the Ising Topological Quantum Computer
Goryuchkina, Irina	Asymptotic Forms and Expansions of Solutions to the

	Painlevé Equations
Horozov, Emil	Real Calogero-Moser Spaces and Representation Theory
Horozov, Ivan	Quantum Gravity, Iterated Integrals and Cohomology of $GL_n(\mathbb{C})$
Knezevic, Miljan	A Note on the Harmonic Quasi-Isometries
Kojima, Takeo	The Integrals of Motion for the Elliptic Deformed W-algebra (An Elliptic Quantization of the KdV Theory)
Linshaw, Andrew	Invariant Theory and the $W_{1+\infty}$ Algebra
Malikov, Fyodor	Algebras of Chiral Differential Operators, Twisted and Untwisted
Nahm, Werner	Integrable Deformations of CFTs and the Discrete Hirota Equations
Nikolov, Nikolay	Anomalies in Quantum Field Theory and Cohomologies of Configuration Spaces

Nissimov, Emil	Wormholes and Non-Singular Black Holes via Lightlike Branes
Obrenovic, Kristina	Some Examples of Slant Surfaces in The Nearly Kähler Six Sphere
Poletaeva, Elena	Superconformal Algebras and Related Topics
Popov, Todor	Hopf Structures on Standard Young Tableaux
Rakic, Zoran	$F_q[M_n]$, $F_q[GL_n]$ and $F_q[SL_n]$ as Quantized Universal Enveloping Algebras
Randjbar-Daemi, Seifallah	Infrared Modification of Gravity with Dynamical Torsion
Rashkov, Radoslav	Strings on $T^{1,1}$ and Reduction to an Integrable System
Rausch De Traubenberg, Michel	Parafermions, Ternary Extension of the Poincaré Algebra and Its Associated Superspace
Regniers, Gilles	Wigner Quantization of $H=xp$
Salom, Igor	Applicability of the Gell-Mann

	Formula to $sl(n, \mathbb{R})$ Algebras
Sasakura, Naoki	Tensor Models as Theory of Dynamical Fuzzy Spaces and General Relativity
Scheithauer, Nils	Moonshine for Conway's Group
Schomerus, Volker	$OSP(2S+2 2S)$ Sigma Models
Suchanek, Paulina	4-Point Conformal Blocks in 2D SuperConformal Field Theory
Sugino, Fumihiko	Ginsparg-Wilson Formulation of 2D $N = (2,2)$ SQCD with Exact Supersymmetry
Todorov, Ivan	Minimal Representations and Dual Pairs
Van Der Jeugt, Joris	New Analytically Solvable Hamiltonians: Canonical Quantization and Wigner Quantization
Yakimov, Milen	Quantized Nilpotent Algebras
Zhang, Ruibin	Quantum Group Actions on Noncommutative Algebras and Equivariant K-Theory