

Table 1: **ISQS29 – Speakers and Talk titles**

Speaker	Talk title
Aizawa	Color Lie algebra construction of Vassiliev’s knot invariants
Amaro-Alcala	Symmetries and Combinatorics in the Characterisation of Universal Qudit Gates
Amatuni	Magnetic Properties, Entanglement of Antiferromagnetic Trinuclear Cu (II) and Ni (II) Ions Complexes
Ananikyan	Spin-1 Antiferromagnetic Diamond Chains with Biquadratic Nodal-nodal Interactions: Magnetization Plateaus, Super-Stable Points and Cycles
Anguelova	Multifield Cosmology and the Dark Universe
Aniello	Physics below Planck scale: some results in non-Archimedean quantum mechanics
Arutunian	Parametric solution of the retardation equation in electrodynamics on one-dimensional manifolds
Bilać	The Weyl realizations of the orthogonal, Lorentz and Poncaré algebras
Buring	The sea of Poisson structures and its Graph Complex flows: a new online database
Calderon-Gomez	Berry and Uhlmann phases
Castro-Alvaredo	An Introduction to Irrelevant Perturbations in Integrable Quantum Field Theory
Correa	Cnoidal black holes and integrable symmetries in AdS_3 gravity
Dahm	Discrete and Lie Quantum Symmetries derived from Classical Projective Geometry
Das	A restriction problem for mod p representation of $SL(2, F)$
De Guise	The regular representation of S_n in interference of fermions and bosons.
Dell’Atti	Lagrangian multiforms on coadjoint orbits for finite-dimensional integrable systems: the open Toda lattice
Derezinski	Holomorphic families of exactly solvable Schrödinger operators
Dey	Some quantizations on smooth manifolds
Domanski	Quantum mechanics with a minimal length and time scale
Downing	Modular properties of generalised Gibbs ensembles
Feng	Integrable discretization of the massive-Thirring model

Continued on next page

Table 1 – continued from previous page

Surname	Talk Title
Franchino-Viñas	Resummed heat kernels for nonperturbative effects in quantum field theory
Fring	Ghost free higher time-derivative theories
Gerrard	Quantum walks on graphs with two terminals
Gonul	Multidimensional Davey-Stewartson Equations: Lie Symmetries and Exact Solutions
Gozdz	Temporal momentum
Golerik	Supersymmetry and Integrability
Grundland	Lie modules analysis of the Euler system
Hasegawa	Quantization of discretized Painlevé equations
Chatzistavrakidis	Poisson supersymmetry and representations up to homotopy in 2D sigma models
Chen	Exact Solution of the Bose-Hubbard Model with Unidirectional Hopping
Chiba	On the proof of absence of local conserved quantities in several quantum many-body spin systems
Chowdhury	Supersymmetric Quantum Mechanics on a noncommutative plane: a deformation quantization theoretic viewpoint
Chruscinski	A universal constraint for relaxation rates for quantum Markov generators
Ikedo	Quantum argument method for the universal enveloping algebra $U\mathfrak{gl}_n$
Ishtiaque	Miura Operators as R-matrices from 5d Holomorphic-Topological Chern-Simons Theory
Ivanescu	The Cuntz semigroup, tensor products and applications
Ito	$\mathbb{Z}_2 \times \mathbb{Z}_2$ -Graded extension of the superLiouville theory
Iwao	An Algebro-geometric approach to the Bethe roots of the periodic TASEP
J. Brown	Adapting the Kontsevich graph calculus to the class of Nambu-Poisson brackets: when the invisible becomes crucial.
Jiang	Equivariant Localization in Batalin-Vilkovisky Formalism
Kaad	Noncommutative metric geometry of quantum spheres
Kashuba	The Jucys–Murphy method and fusion procedure for the Sergeev superalgebra

Continued on next page

Table 1 – continued from previous page

Surname	Talk Title
Kirschner	Yangian representations and permutations
Kiselev	Identities with determinants: Jacobians and Wronskians
Kong	Quantum Geodesic Equations and Quantum Geometry
Kovacik	The Fuzzy Onion Space. It falls under Noncommutative Geometry
Koval	Weyl algebras and symmetries of differential equations
Kozic	Deformed quantum vertex algebra modules associated with braidings
Kubu	Haantjes and Eisenhart for integrable systems
Kuwata	Spin-orbit duality in the Bhabha theory
Kuznetsova	Color Lie algebras e superalgebras, geometric questions and applications to physical models
Leclair	Bethe Ansatz for the Riemann zeros
Lechtenfeld	Vertical intertwiners for the Calogero model
Li	The Poisson geometry of Yang-Baxter maps arising in solitons interactions
Magnot	Kadomtsev-Petviashvili hierarchies beyond the standard settings
Marquette	Subalgebra chains and nuclear physics : Commutant approach and construction of polynomial algebras
Mekonnen	Invariance under quantum permutations rules out parastatistics
Mohd Shah	Group-Theoretic Perspectives on $SU(1,1)$ -Based Quantum Codes
Morley	Detecting signal energy below the noise floor
Motlochová	Triangular Graphene Quantum Dots with Zigzag Edges
Mourao	The use of imaginary time flows in quantization
Mullahasanoglu	From Dual Supersymmetric Gauge Theories to Dual Spin Models
Nesterenko	On realizations of Lie algebras
Nogami	Complete Characterization of Statistical Constraints in Local Realism and Quantum Mechanics via a Unified Geometric Framework
Oshima	Elliptic Quantum Toroidal Algebras and their vertex operators
Pal	On generalized symmetries of the magnetic 2+1- D black hole and its non-relativistic counterpart.
Parr	Algorithmic methods to find polynomial integrals of motion
Pedrak	Integral quantization based on the Heisenberg-Weyl group

Continued on next page

Table 1 – continued from previous page

Surname	Talk Title
Piatek	Celestial holography, Liouville perturbation theory, and Yang-Mills scattering amplitudes
Pimentel Nunes	The use of imaginary time flows in quantization
Poletaeva	On representations of the super-Yangian of the queer Lie superalgebra.
Postolak	Non-minimally coupled scalar field dark sector of the Universe - detailed case study
Prykarpatski	On the electron spin origin, its $SU(2)$ -symmetry structure and the related ground state properties
Rastelli	Separation of variables for the Schroedinger equation with vector and scalar potential
Rocchi	Definitional and Computational Formulas in Quantum Physics
Romanczukiewicz	Charge swappers and polarized Q-balls as perturbed oscillons
Rouleux	Multidimensional complex WKB solutions
Rovere	Non-horizontal Polyforms and BRST Anomalies: An Extension of the Stora-Zumino Method
Roza Livramento	Self-duality and the Holomorphic Ansatz in Generalized BPS Skyrme Mode
Saigo	From Categories to Quantum Fields: Category Algebras and States on Categories
Sailis	Complete Minimal form Factor for Irrelevant Deformations of Integrable Quantum Field Theory”
Samsarov	Toward black hole QNM spectrum from quantum spacetime deformation
Sasakura	Tensor eigenvalue distributions and geometric measures of quantum entanglement
Sawicki	Random approximate t-designs and quantum circuit overhead
Sedlmayr	Dynamical Quantum Phase Transitions in Topological Matter and a Dynamical Bulk-Boundary Correspondence
Serganova	Odd nilpotent orbits in the adjoint representations of Lie superalgebras.
Shaikhova	Mathematical Methods of Obtaining the Solutions of Some Non-linear Equations of Mathematical Physics
Shimazaki	PINNs study for the Bekki-Nozaki chaos in the Schrödinger equation

Continued on next page

Table 1 – continued from previous page

Surname	Talk Title
Shiozawa	Generalized complex structures, (p, q) hermitian geometry and T-duality
Schreiber	Non-Lagrangian construction of abelian CS/FQH-theory via flux quantization in 2-Cohomotopy
Singh	3d mixed BF theory and Hitchin integrable hierarchies
Smilga	Irreducible multi-particle representations of the Poincaré group as basis for the Standard Model.
Spisak	Wignerian approach to entanglement of bipartite squeezed coherent states
Studzinski	Irreducible matrix representations for the walled Brauer algebra and their role in quantum information
Suszek	The gauge principle for groupoidal symmetries: Principaloid bundles
Szajewska	Casimir invariants of low-dimensional Lie algebras in terms of the eigenvalue problem.
Šnobl	On the incompleteness of the classification of quadratically integrable Hamiltonian systems in the three-dimensional Euclidean space
Takano	Markovian and Non-Markovian Dynamics in a Particle Bath with Dirac Dispersion
Teska	General orthogonality relations of Weyl orbit functions on lattices
Toppan	Color Lie algebras e superalgebras, geometric questions and applications to physical models
Trombettoni	Universal Properties and Phase Diagrams of Long-Range Systems
Turner	Lie symmetries, Bi-Hamiltonian structures and equivalent representations of the Pais-Uhlenbeck mode
Ulucay	Some Korovkin type approximation theorems via power series methods in $L_q[a, b]$
Vourdas	Open systems, probability currents and the Grothendieck formalism
Wang	Topological quantum integrability
Welsh	Mixed symmetries of S_n : immanents in the sampling of submatrices of $U(d)$.
Zadnik	Integrability and transport in magnetization-conserving nearest-neighbour qubit circuits

Continued on next page

Table 1 – continued from previous page

Surname	Talk Title
Zhang	R-matrices for Verma-like modules of quantum affine algebras
Zuevskiy	Conformal field theory generalizations of Ramanujan formulas