

Monday 18 July

Room	Room 104	Room 346	Fresnel	Room 150	Carnot
Topics	Q-algebras and groups, q-special functions	Symmetries in particle physics	Representation theory	Symmetries in differential, difference and nonlinear equations	Condensed matter and statistical physics
14:00-14:30	Gutiérrez Sagredo: Noncommutative spaces of worldlines from quantum groups: Construction and phenomenological implications	Gresnigt: Standard Model symmetries from Cayley-Dickson algebras	Ben Geloun, Joseph: A combinatorial interpretation of the Kronecker coefficient via quantum mechanics of bipartite ribbon graphs	Yehorchenko: Extension of Realisations for Low-Dimensional Lie Algebras	Calixto: Hilbert Space Structure of the Low Energy Sector of $U(N)$ Quantum Hall Ferromagnets and Their Classical Limit
14:30-15:00	Herranz: From quantum deformations to noncommutative spaces: Application to quantum (A)dS and Poincaré groups	Kumar: Yang-Mills solutions on Minkowski space via non-compact coset spaces	Aizawa: Irreducible representations of $Z_2^2$ -graded super-symmetry algebra and their applications	Buring: How Kontsevich's (affine) star product is associative up to order 6 (respectively 7)	Vinet: Entanglement of free Fermions on graphs
15:00-15:30	Lledó Barrena: $N = 2$ supersymmetry, quantization and quantum superbundles	Pietrzak: Clocking mechanism from a minimal spinning particle model	Bisbo: Dirac operators, vector variables and bases for parastatistical Fock space representations	Kiselev: Kontsevich's universal graph flows on the spaces of Nambu-Poisson brackets: their hidden symmetry	Gorska: Do the solutions of the generalized Cattaneo-Vernotte equation vanish outside the compact region?
15:30-16:00	Gourevitch: Reflection Equation Algebra as quantum analog of $U(\mathfrak{gl}(N))$	Thierry-Mieg: Towards a self-dual super-chiral QFT of the weak interactions gauging the simple Lie-Kac superalgebra $SU(2/1)$	Clarebout: A minimal representation of the exceptional Lie superalgebra $D(2, 1, \alpha)$	Campoamor-Stursberg: Symmetry algebras of ODEs and the embedding problem for Lie algebras	Horzela: Subordination and memory dependent kinetics in diffusion and relaxation phenomena
16:00-16:30	Coffee-break				
Topics	Superstrings, cosmology and quantum gravity	Symmetries in molecular, atomic and nuclear physics	Representation theory	Foundations of quantum physics	Symmetries in integrable systems
16:30-17:00	Marrani: Vinberg special T-algebras : from black hole entropy to "exceptional periodicity"	Ricotta: A Mathematical Model for the Statistics of Tri-Stable Potentials	del Olmo: Symmetry Groups, Quantum Mechanics and Generalized Hermite Functions	Toppan: Inequivalent multiparticle quantizations from nontrivial braidings	de León: Reduction of contact Hamiltonian systems
17:00-17:30	Valenzuela: On the spin contents of the massless Rarita-Schwinger system	Mayorgas: Role of mixed permutation symmetry sectors in the thermodynamic limit of critical three-level Lipkin-Meshkov-Glick atom models	Goncharov: Traceless projection of tensors of any rank and symmetry via Brauer algebra	Yau: Quantum Fluctuations of a Particle's Arrival Time	