

Tuesday 19 July

Room	Room 104	Room 346	Fresnel	Room 150	Carnot
Topics	Superstrings, cosmology and quantum gravity	Symmetries in particle physics	Representation theory	Noncommutative field theories	Symmetries in integrable systems
14:00-14:30	Ben Geloun: Dimensional flow from nonlocality: some results in Tensor Field Theory	Schubert: Group invariants for Feynman diagrams	Kozic: Associating quantum vertex algebras with quantum affine algebras	Beggs: Quantum geodesics in quantum mechanics	Hussin: Differential realization of ladder operators for the Rosen-Morse systems
14:30-15:00	Rtos: Beyond M-theory with Nested Braneworlds	Thierry-Mieg: Chiral Casimirs and indecomposable representations of the $sl(m/n)$ superalgebras	Langlois-Rémillard: Monogenic representations of the algebra of symmetries of the generalised Dirac operator	Nieuviarts: Non Commutative Gauge Field Theory on Approximately Finite C^* -algebras and GUT	Hounkonnou: Newton mechanics, Galilean relativity and special relativity in α -deformed binary operation setting
15:00-15:30	Sasakura: Splitting-merging transitions in a tensor-vectors system in exact large-N limits	Quadri: Renormalizable Extension of the Abelian Higgs-Kibble Model with a Dim. 6 Derivative Operator	Postnova: Tensor powers of vector representation of quantum $sl(2)$ at roots of unity		Toda: Generalized Willmore Energies and Elastic Surfaces with Applications to Biophysics
15:30-16:00	Ramada: A novel scenario for the emergence of geometry and gravity from random multi-trace matrix models				Tempesta: Generalized Nijenhuis tensors and integrable systems
16:00-16:30	Coffee-break				
Topics	Superstrings, cosmology and quantum gravity	Symmetries in molecular, atomic and nuclear physics	Representation theory	Symmetries in biophysics, chemical physics and natural sciences	Symmetries in integrable systems
16:30-17:00	Smigla: Noether's theorem, conservation of momentum, and gravitation in multiparticulate systems	Van Isacker: Seniority and particle-hole conjugation in atomic nuclei	Stoilova: A class of representations of the infinite-rank $Z_2 \times Z_2$ -graded Lie superalgebra $psl(\infty \infty)$	Planat: Infinite groups and symmetries in biophysics at the DNA/RNA scale	Rastelli: Complete separability of the Hamilton-Jacobi equation for the charged particle orbits in a Liénard-Wiechert field
17:00-17:30	Suszek: Towards higher super- σ -model categories	Gavrilov: An algebraic approach to intertwined quantum phase transitions in the Zr isotopes	Van der Jeugt: Parabosons: basis constructions		Yoneyama: Tetrahedron and 3D reflection equation from PBW bases of the nilpotent subalgebra of quantum superalgebras