

Symmetries, Integrable Systems and Representations

Lyon, France, December 13 - 16, 2011

Program

December 13 (Tuesday)

Welcome coffee (9h45-10h15)

- M. Miyamoto (10h15-11h15)
 C_2 -cofiniteness of VOAs and orbifold theory.
- P.-E. Caprace (11h30-12h30)
Contraction groups and linearity.
- J. Morita (14h15-15h15)
Symmetries, Lie algebras and aperiodic orders.
- P. Littelmann (15h30-16h30)
PBW degeneration: representations, flag varieties, polytopes and combinatorics in type A and C.
Coffee break
- B. Feigin (17h-18h)
Vertex operators for the toroidal (Ding-Iohara) algebras (tentative).

December 14 (Wednesday)

- B. Leclerc (8h45-9h45)
Quantum Grothendieck rings and derived Hall algebras.
- H. Sakai (10h-11h)
Ordinary differential equations on rational elliptic surfaces.
Coffee break
- A. Nakayashiki (11h30-12h30)
Abel-Jacobi map and Schur functions.
- P. Zinn Justin (14h15-15h15)
Six-vertex and eight-vertex models on their combinatorial line.
- P. van Moerbeke (15h30-16h30)
Non-intersecting Brownian motions, Domino tilings and critical processes.
Coffee break

- F. Smirnov (17h-18h)

One-point functions for sine-Gordon model at finite temperature.

December 15 (Thursday)

- P. Fiebig (8h45-9h45)
On critical level representations of affine Kac-Moody algebras.
 - T. Nakashima (10h-11h)
Decorated geometric crystals, elementary characters and monomial realizations of crystal bases.
Coffee break
 - P. D. Hernandez (11h30-12h30)
Asymptotic representations and Drinfeld rational fractions (joint work with M. Jimbo).
 - I. Gordon (14h15-15h15)
Equivalence for Cherednik algebras.
 - C. Gruson (15h30-16h30)
Representations of orthosymplectic Lie superalgebras.
Coffee break
 - M. Jimbo (17h-18h)
Fermions acting on local operators in the XXZ model: a review.
Conference Diner
- ### December 16 (Friday)
- Y. Saito (9h-10h)
On Berenstein-Zelevinsky data in affine type A.
 - O. Schiffmann (10h15-11h15)
Double affine Hecke algebras and the cohomology of the moduli space of torsion free sheaves on the plane.
 - H. Nakajima (11h30-12h30)
Coproduct on Yangian.