

Geometric Representation Theory 2016

Oct. 10 (Mon.) – Oct. 14 (Fri.), 2016

Kyoto University

Department of Mathematics, Room 110

Program (tentative)

Oct. 10 (Mon.)

- 10:45 – 11:45 G.Williamson (MPI and RIMS)
Representations of algebraic groups and Koszul duality
- 13:45 – 14:45 M.Watanabe (Preferred Networks, inc.)
Schubert polynomials and Kraskiewicz-Pragacz modules
- 15:00 – 16:00 I.Losev (Northeastern)
Hecke algebras for complex reflection groups
- 16:15 – 17:15 A.Negut (MIT)
- 17:30 – 18:30 A.Negut (MIT)
From Khovanov homology to Hilbert schemes of points

Oct. 11 (Tue.)

- 9:30 – 10:30 X.Zhu (Caltech)
Kloosterman D-modules and Hitchin system with ramification
- 10:45 – 11:45 T.Kuwabara (Tsukuba)
Vertex algebras associated with the Hamiltonian reduction for
hypertoric varieties
- 13:00 – 13:30 Reimbursement at RIMS 110 participants from abroad
- 13:45 – 14:45 A.Smirnov (Berkeley)
Rationality of descendants in quantum K-theory
- 15:00 – 16:00 S.Naito (Titech)
Standard monomial theory for semi-infinite LS paths with geometric
application
- 16:15 – 17:15 H.Williams (Texas)
Cluster Theory of the Coherent Satake Category

Oct. 12 (Wed.)

- 9:00 – 10:00 T.Ikeda (Okayama)
Quantum K-theory of flag variety and K-homology of affine Grassmannian
- 10:15 – 11:15 A.Weekes (Perimeter Institute)
Cohomology rings of quiver varieties, and a conjecture of Hikita
- 11:30 – 12:30 S.Yanagida (Nagoya)
Factorization space and deformation of Liouville CFT

Oct. 13 (Thu.)

- 9:30 – 10:30 M.Kashiwara (RIMS)
Monoidal categorification of cluster algebras by quiver Hecke algebras
- 10:45 – 11:45 V.Ostrik (Oregon)
A sign in the associativity constraint
- 13:45 – 14:45 R.Kodera (Kyoto)
Quantized Coulomb branches of Jordan quiver gauge theories and cyclotomic rational Cherednik algebras
- 15:00 – 16:00 T.Hikita (RIMS)
Remarks on canonical bases in equivariant K-theory
- 16:15 – 17:15 K.Iwaki (Nagoya)
Resurgence, exact WKB and wall-crossing
- 17:30 – 18:30 P.McNamara (Queensland)
Geometric Extension Algebras

Oct. 14 (Fri.)

- 9:30 – 10:30 A.Braverman (Toronto)
Coulomb branches of 4-dimensional gauge theories, double affine Hecke algebras and q-quasi-invariants
- 10:45 – 11:45 Y.Saito (Tokyo)
On quantum elliptic algebras
- 13:45 – 14:45 M.Finkelberg (HSE)
Comultiplication in the open Toda lattice and shifted yangians
- 15:00 – 16:00 S.Ariki (Osaka)
Representation type for block algebras of Hecke algebras
- 16:15 – 17:15 A.Licata (ANU)
The elliptic Hall algebra and the q-deformed Heisenberg category

Further information will be available at

<http://www.kurims.kyoto-u.ac.jp/~nakajima/grt2016.html>