

GEOMETRY OF DERIVED CATEGORIES AND REPRESENTATION THEORY

NORTHEASTERN UNIVERSITY, APRIL 30–MAY 4, 2012

All lectures and breakfast will take place in room 325 of the Berhakhis Center

Monday, April 30

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| 9–9:30 | breakfast |
| 9:30–10:30 | A. Okounkov, "Quantum cohomology of Nakajima varieties" |
| 10:30–11 | coffee |
| 11–12 | B. Keller, "Combinatorial DT invariants and cluster algebras, I" |
| 12–1:30 | lunch |
| 1:30–2:30 | A. Goncharov, "Ideal webs and moduli spaces of local systems on surfaces" |
| 2:30–3:00 | coffee |
| 3:00–4:00 | A. Bayer, "Projectivity and birational geometry of Bridgeland moduli space" |

Tuesday, May 1

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| 9–9:30 | breakfast |
| 9:30–10:30 | B. Keller, "Combinatorial DT invariants and cluster algebras, II" |
| 10:30–11 | coffee |
| 11–12 | E. Macri, "Bogomolov-Gieseker inequality in higher dimensions" |
| 12–1:30 | lunch |
| 1:30–2:30 | A. Efimov, "Quantum cluster monomials via DT theory" |
| 2:30–3:00 | coffee |
| 3:00–4:00 | M. Kapranov, "Cubic relations in Hall algebras and zeroes of zeta functions" |
| 4:15–5:15 | S. Gautam, "Yangians and quantum loop algebras" |

Wednesday, May 2

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| 9–9:30 | breakfast |
| 9:30–10:30 | E. Vasserot, "Affine W-algebras and quiver varieties" |
| 10:30–10:45 | coffee |
| 10:45–11:45 | K. Nagao, "Donaldson–Thomas theory and mapping class group" |
| 11:45–1:15 | lunch |
| 1:15–2:15 | J. Kamnitzer, "Quantizations of affine Grassmannian slices using subquotients of Yangians" |
| 2:15–2:45 | coffee |
| 2:45–3:45 | P. Seidel, "Mirror symmetry for A_m resolutions and smoothings" |

Thursday, May 3

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| 9–9:30 | breakfast |
| 9:30–10:30 | S. Cautis "Vertex operator constructions" |
| 10:30–10:45 | coffee |
| 10:45–11:45 | P. Shan, "Cyclotomic rational Cherednik algebras and affine Lie algebras" |
| 11:45–1:15 | lunch |
| 1:15–2:15 | R. Rouquier, "Perverse Equivalences, I" |
| 2:15–2:45 | coffee |
| 2:45–3:45 | V. Ginzburg, "The affine Grassmannian and symplectic geometry related to G/U " |
| 6:30 | Conference dinner at the Royal East Restaurant, 792 Main Street, Cambridge |

Friday, May 4

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| 9–9:30 | breakfast |
| 9:30–10:30 | R. Rouquier, "Perverse Equivalences, II" |
| 10:30–10:45 | coffee |
| 10:45–11:45 | C. Stroppel, "Generalized Kazhdan-Lusztig polynomials and completed Grothendieck groups" |
| 11:45–1:15 | lunch |
| 1:15–2:15 | B. Webster, "The representation theory of symplectic singularities" |
| 2:15–2:45 | coffee |
| 2:45–3:45 | I. Losev, "Highest weight categorical sl_2 -actions" |