Tokyo–Seoul Conference in Mathematics Representation Theory

December 4 – December 5, 2009

Room 056, Graduate School of Mathematical Sciences, The University of Tokyo

Program

December 4

9:45 - 10:00 Opening address

10:00 – 11:00 Michio, Jimbo (Rikkyo University) Hidden Grassmann structure in the XXZ model

11:15 – 12:15 Seok–Jin, Kang (Seoul National University)
 Geometric construction of crystal bases for quantum generalized Kac-Moody algebras

13:45 – 14:45 Kentaro, Wada (Nagoya University) Presenting cyclotomic q-Schur algebras

15:15 – 16:15 Eui–Yong, Park (Seoul National University) Quiver varieties and perfect crystals for affine Kac-Moody algebras of type $A_n^{(1)}$

16:30 – 17:30 Noriyuki, Abe (The University of Tokyo)On the existence of homomorphisms between principal series of complex semisimple Lie groups

18:00 – Banquet, Common room 222

December 5

- 10:00 11:00 **Dong-il, Lee** (Seoul Women's University) Generalized regularity for infinite dimensional Lie algebras
- 11:15 12:15 Ryosuke, Kodera (The University of Tokyo)
 Extensions between finite-dimensional simple modules over a generalized current Lie algebra

13:45 – 14:45 Jae–Hoon, Kwon (The University of Seoul) On extremal weight crystals for the general linear Lie algebra of type $A_{+\infty}$

15:15 – 16:15 Takeshi, Suzuki (Okayama University)Lie, Hecke and Cherednik Algebras in Conformal Field Theory

16:30 - 17:30 Atsushi, Matsuo (The University of Tokyo)Topics in the theory of vertex operators and the monster

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Organizing Committee: Seok–Jin Kang (Seoul National University) Jong–Hae Keum (KIAS) Toshio Oshima (University of Tokyo)