Algebraic Analysis and Around
in honor of Professor Masaki Kashiwara's 60th birthday

21   COE

http://www.math.kyoto-u.ac.jp/alan2007/enter.html   on-line registration
5000   ~

2000

<div align="center">

Organizing committee
Chief organizers: T. Miwa, P. Schapira
Scientific advisors: B. Feigin, M. Jimbo, K. Kato, T. Kimura,
                        H. Nakajima, T. Oshima, T. Tanisaki
Managing organizers: T. Nakashima, A. Matsuo, Y. Saito

</div>

2007   6   25   9:00 ~
        6   30   13:00

    25   ~ 27
    28   ~ 30   420

Program

Monday, June 25 (Inamori Hall)

 9:00 – 9:30   —*Registration*—

 9:30 – 10:30   Hiraku Nakajima
                Sheaves on ALE spaces and quiver varieties

11:00 – 12:00   Kazuya Kato
                Degeneration of mixed Hodge structures

13:30 – 14:30   Eric Vasserot
                On finite dimensional modules of DAHA

14:40 – 15:40   Shrawan Kumar
                On Cachazo-Douglas-Seiberg-Witten Conjecture for Simple Lie
                Algebras

16:00 – 17:00   Vyjayanthi Chari
                Current algebras and quivers

Tuesday, June 26 (Inamori Hall)

9:00 – 10:00 Dennis Gaitsgory
Langlands duality for quantum groups

10:10 – 11:10 Victor Ginzburg
Character sheaves and Cherednik algebras

11:30 – 12:30 Kyoji Saito
Towards Categorical Construction of Lie Theory

13:30 – 14:30 Seok-Jin Kang
Perfect crystals and Young walls

14:40 – 15:40 Bernard Leclerc
Cluster algebras in Lie theory

16:00 – 17:00 Raphael Rouquier
Microlocalization of rational Cherednik algebras (joint work with M.Kashiwara)

Wednesday, June 27 (Inamori Hall)

9:00 – 10:00 Takeshi Saito
Wild ramification and the characteristic cycle of an l-adic sheaf

10:30 – 11:30 Alexander Beilinson
Playing with Kashiwara's index formula

13:00 – 13:30 All presenters of the poster session
Introduction to papers
13:30 – 15:30 —*Poster Session*—

16:00 – 16:30 Pierre Schapira
Masaki Kashiwara and Algebraic Analysis

16:35 – 17:35 Masaki Kashiwara
Generalization of Lascoux-LeClerc-Thibon-Ariki theory

17:45 – 18:15 —*Concert (Kalna Katsoum)*—

18:30 – 20:30 —*Banquet*—

Thursday, June 28 (RIMS 420)

    10:30 – 11:30   Francois Loeser
                       Vanishing cycles and Fourier transform in motivic integration: first steps towards motivic microlocal geometry

    13:30 – 14:30   Shigefumi Mori
                       On Q-conic bundles

    14:40 – 15:40   Kari Vilonen
                       Algebraic analysis and representation theory of Lie groups

    16:00 – 17:00   Morihiko Saito
                       On b-function, spectrum, and multiplier ideals

Friday, June 29 (RIMS 420)

    9:00 – 10:00   Takuro Mochizuki
                       Harmonic bundle and D-module

    10:30 – 11:30   Edward Frenkel
                       Quantization of soliton systems and Langlands duality

    13:30 – 14:30   Claude Sabbah
                       On wild twistor D-modules

    15:00 – 16:00   Ian Grojnowski
                       Hilbert schemes and integrable systems

Saturday, June 30 (RIMS 420)

    9:00 – 10:00   Boris Feigin
                       "Fusion" of the representations of quantum groups in the root of unity

    10:30 – 11:30   Ivan Cherednik
                       Toward Riemann's Q-hypothesis

    12:00 – 13:00   Takahiro Kawai
                       The Bender-Wu Analysis and the Voros Theory II.

List of Presenters in the Poster Session
Wednesday, June 27 (Inamori Hall)
    13:00 – 13:30 Introductions to papers by all presenters
    13:30 – 15:30 Poster Session

- Peter Tingley (University of California, Berkeley, Graduate Student)
  "Three combinatorial models for affine sl(n) crystals, with applications to cylindric plane partitions"

- Delphine Dupont (Laboratoire J. A. Dieudonne, Universite de Nice Sophia-Antipolis, Graduate Student)

- Joel Kamnitzer (UC Berkeley / AIM, Postdoc)

- Kobi Kremnizer (MIT, Postdoc)

- Giovanni Morando (Institut de Mathematiques de Jussieu, Postdoc)

- Luca Prelli (Universite Paris 6, Postdoc)

- Ana Rita Martins (Centro de Algebra da Universidade de Lisboa)

- Pietro Polesello (University of Padova, Postdoc)

- Yuuki Abe (The University of Tokyo, Postdoc)

- Kouichi Takemura (Yokohama City University)

- Chun-Chung Hsieh (Math. Dept. Academia Sinica, TAIWAN)
  "Linking in knot theory"

- Makoto Sakurai (Department of Physics, Faculty of Science, University of Tokyo, Graduate Student)
  "Beilinson-Drinfeld chiral algebras for del Pezzo surfaces"

- Reiho Sakamoto (Department of Physics, The University of Tokyo, Graduate Student)

- Dong-il Lee (Department of Mathematical Sciences, Seoul National Unoversity, Graduate Student)

- Mugalu Andrew Sewava (Zirobwe Institute of Sciences and Technology)

- Anne Moreau (Institut de mathematiques de Jussieu, Postdoc)
  "the nilpotent bicone of a reductive Lie algebra"

- Yasuhide Numata (Department of Mathematics, Hokkaido University, Postdoc)

- Hidekazu Watanabe (The University of Tokyo, Graduate School of Mathematical Sciences)

- Kentaro Wada (Nagoya University, Graduate Student)