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

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

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 François 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)