The World of Combinatorial Representation Theory

Work Shop

Organizer : Hiroshi Mizukawa
(Depertment of Mathematics, National Defense Academy in Japan)

November 8-11, 2005 , Research Institute for Mathematical Sciences, Kyoto University

Nov. 8 (Tue)

13:30 ∼ 14:30 Yacehide Numata (Hokkaido University)
A generalization of Schur polynomials and Pieri's formula.

14:45 ∼ 15:45 Masao Ishikawa(Tottori University)
Several refined conjectures on TSSCPP and ASM.

16:00 ∼ 17:00 Jiang Zeng (Institut Girard Desargues, Université Claude Bernard Lyon-I)
The Faulhaber Formula for Sums of Powers and Nonintersecting Lattice Paths Counting.

Nov. 9 (Wed)

10:00 ∼ 11:00 Naoya Enomoto(RIMS)
On Kasatani's Conjecture and Crystallized Decomposition Numbers.

11:15 ∼ 12:15 Masashi Kosuda(Ryukyu University)
Standard expression for the modular party algebras.

13:30 ～ 14:30 Yasushi Gomi （Sophia University）
The Fourier transforms determine the Markov traces.

14:45 ～ 15:45 Masahiko Ito（Aoyama Gakuin University）
BCn type Jackson integrals and 'elementary' symmetric polynomials.

16:00 ～ 17:00 Toru Umeda（Kyoto University）
Euler's pentagonal number theorem as a trace identity.

Nov. 10 (Thu)

10:00 ～ 11:00 Tomohiro Sasamoto（Chiba University）
One-dimensional surface growth models and Schur process.

11:15 ～ 12:15 Taichiro Tkakagi（National Defense Academy）
Integrable cellular automata and Kerov-Kirillov-Reshetikhin bijection.

13:30 ～ 14:30 Daisuke Sagaki and Satoshi Naito Tsukuba University)
Crystal structure of the set of Lakshmibai-Seshadri paths of an arbitrary level-zero shape.

14:45 ～ 15:45 Mark Shimozono(Virginia Tech)
Equality of stable one-dimensional sums and Lusztig's q-analogue of weight multiplicity.

16:00 ～ 17:00 Toshiaki Shoji（Nagoya University）
On the computation of irreducible characters of finite reductive groups １.

11 Nov. (Fri)

10:00 ～ 11:00 Takeshi Ikeda (Okayama University of Science)
A factorial analogue of Schur's Q-functions and equivariant cohomology.

11:15 ～ 12:15 Toshiaki Shoji（Nagoya University）
On the computation of irreducible characters of finite reductive groups 2.