

Algebraic Lie Theory and Representation Theory 2024 (ALTReT2024)

Date: May 17 – 20, 2024

Venue: Kyukamura Minami-Aso (Kumamoto, Japan)

Program

	May 17		May 18	May 19		May 20
		9:10–10:00	Nguyen	Tauchi	9:00–9:50	Kouno
		10:15–11:05	Yoshida	Kano	10:00–10:25	Short talks (2)
		11:20–12:10	Tanaka	Ishibashi	10:35–11:25	Ikeda
			Lunch	Lunch		Lunch
		13:30–13:50	Free discussion	Short talks (1)		
		14:00–15:00	Tanisaki (1)	Tanisaki (2)		
15:40–16:30	Katsuda	15:30–16:30	Yoshinaga (1)	Yoshinaga (2)		
16:50–17:40	Sugimoto	16:50–17:40	Iwata	Yamane		
	Dinner		Dinner	Dinner		
20:00–20:50	Nakayama	20:00–20:30	Hiramae	Free discussion		
		20:35–21:05	Kontrec	Free discussion		

Title

May 17

- 15:40 – 16:30 Atsushi Katsuda
Chebotarev density theorem, Quasi-morphism, Modified Riemann-Hilbert problem and Oper
- 16:50 – 17:40 Shogo Sugimoto (Waseda University)
Combinatorics of Demazure characters in type A

—Dinner—

- 20:00 – 20:50 Yusuke Nakayama (Waseda University)
Homogeneous Ulrich bundles on homogenous varieties of certain exceptional type

May 18

- 9:10 – 10:00 Duc-Khanh Nguyen (OIST)
On the shifted Littlewood-Richardson coefficients and Littlewood-Richardson coefficients
- 10:15 – 11:05 Atsuro Yoshida (Nagoya University)
Orbit structures of some posets arising from Lie theory under rowmotion
- 11:20 – 12:10 Masato Tanaka (Nagoya University)
Solvability and nilpotency of Kac-Paljutkin's finite quantum group and Sekine quantum groups

—Lunch—

- 13:30 – 13:50 Free discussion
- 14:00 – 15:00 Toshiyuki Tanisaki
Quantized flag manifolds and representations of quantum groups (part 1)
- 15:30 – 16:30 Masahiko Yoshinaga (Osaka University)
The characteristic polynomial of hyperplane arrangements and related topics (part 1)
- 16:50 – 17:40 Yoritaka Iwata (Osaka University of Economics and Law)
Algebraic module of unbounded infinitesimal generators

—Dinner—

- 20:00 – 20:30 Naoya Hiramae (Kyoto University)
On τ -tilting finiteness of group algebras
- 20:35 – 21:05 Ana Kontrec (RIMS)
Kazama-Suzuki duality between certain simple W -algebras

May 19

- 9:10 – 10:00 Taito Tauchi (Aoyama Gakuin University)
Double flag variety for indefinite unitary group $U(p, p)$
- 10:15 – 11:05 Shunsuke Kano (Tohoku University)
Entropy of cluster DT transformations and the finite-tame-wild trichotomy for acyclic quivers
- 11:20 – 12:10 Tsukasa Ishibashi (Tohoku University)
Local acyclicity of the cluster algebras from moduli spaces of G -local systems

—Lunch—

- 13:30 – 13:50 Short talk session (part 1)
- 14:00 – 15:00 Toshiyuki Tanisaki
Quantized flag manifolds and representations of quantum groups (part 2)
- 15:30 – 16:30 Masahiko Yoshinaga (Osaka University)
The characteristic polynomial of hyperplane arrangements and related topics (part 2)
- 16:50 – 17:40 Hiroyuki Yamane (University of Toyama)
Hamiltonian cycles and generalized quantum groups

—Dinner—

- 20:00 – 21:05 Free discussion

May 20

- 9:00 – 9:50 Takashi Kouno (Waseda University)
Positivity conjecture for the equivariant quantum K -ring of some partial flag manifolds
- 10:00 – 10:25 Short talk session (part 2)
- 10:35 – 11:25 Takeshi Ikeda (Waseda University)
Equivariant K -homology of affine Grassmannian

—Lunch—

Organizers:

Naoki Fujita (Kumamoto University)

Katsuyuki Naoi (Tokyo University of Agriculture and Technology)