

# Algebraic and Enumerative Combinatorics in Okayama

## Graduate School of Natural Science and Technology, Okayama University

Date : February 19, 2018 (Mon) – February 23, 2018 (Fri)

Place : Graduate School of Natural Science and Technology,  
Okayama University (Tsushima, Okayama 700-8530, Japan)

### February 19, 2018 (Mon)

09:30–10:30 Jang Soo Kim (Sungkyunkwan University)

Combinatorics of the Selberg integral

10:50–11:50 Greta Panova (University of Pennsylvania)

Hook formulas for skew shapes

13:20–14:20 Soichi Okada (Nagoya University)

$d$ -Complete posets and hook formulas

14:40–15:40 Yasuhide Numata (Shinshu University)

On a framework for Hillman-Grassl algorithms

16:00–17:00 Hiro-Fumi Yamada (Kumamoto University)

On Sato's "On Hirota's Bilinear Equations"

### February 20, 2018 (Tue)

09:30–10:30 Hiroshi Naruse (Yamanashi University)

Equivariant  $K$ -theory and hook formula for skew shape on  $d$ -complete poset

10:50–11:50 Mihai Ciucu (Indiana University)

Lozenge tilings with gaps in a 90 degree wedge domain with mixed boundary conditions

13:20–14:20 Roger Behrend (Cardiff University)

The combinatorics of alternating sign matrices

14:40–15:40 Shuhei Kamioka (Kyoto University)

Nice formulas for plane partitions from an integrable system

16:00–17:00 Ryo Tabata (National Institute of Technology, Ariake College)

Limiting behavior of immanants and Littlewood-Richardson's correspondence

February 21, 2018 (Wed)

09:30–10:30 Jang Soo Kim (Sungkyunkwan University)

Hook length property of  $d$ -complete posets via  $q$ -integrals

10:50–11:50 Greta Panova (University of Pennsylvania)

Hook formulas for skew shapes

12:10–13:10 Itaru Terada (University of Tokyo)

On an involution on the set of Littlewood-Richardson tableaux

14:40–17:00

Problem Session and Free Discussion

February 22, 2018 (Thu)

09:30–10:30 Tom Roby (University of Connecticut)

Paths to understanding birational rowmotion on a product of two chains

10:50–11:50 Mihai Ciucu (Indiana University)

Lozenge tilings with gaps in a 90 degree wedge domain with mixed boundary conditions

13:20–14:20 Roger Behrend (Cardiff University)

The combinatorics of alternating sign matrices

14:40–15:40 Shuhei Kamioka (Kyoto University)

Nice formulas for plane partitions from an integrable system

16:00–17:00 Motoki Takigiku (University of Tokyo)

A factorization formula for  $K$ - $k$ -Schur functions

February 23, 2018 (Fri)

- 09:30–10:30 Masao Ishikawa (Okayama University)  
( $q, t$ )-hook formula for Tailed Insets and a Macdonald polynomial identity
- 10:50–11:50 Ayumu Hoshino (Hiroshima Institute of Technology)  
Tableau Formulas for One-Row Macdonald Polynomials of Types  $C_n$
- 12:10–13:10 Fumihiko Nakano (Gakushuin University)  
Generalized carries process and riffle shuffles

Organized by : Masao Ishikawa (Okayama University), Kento Nakada (Okayama University), Yasuhide Numata (Shinshu University), Soichi Okada (Nagoya University), Takeshi Suzuki (Okayama University), Hiroyuki Tagawa (Wakayama University), Itaru Terada (University of Tokyo), Hiro-Fumi Yamada (Kumamoto University).

### Access

Okayama University (Tsushima Campus) is located 3km north to the Okayama JR station. Take Bus 47 from West Bus Center of Okayama JR station, and get off at the bus stop called “West Gate of of Okayama University” (approximately 7 minutes). The Graduate School of Natural Science and Technology Building No.1 is 300m east to the bus stop.

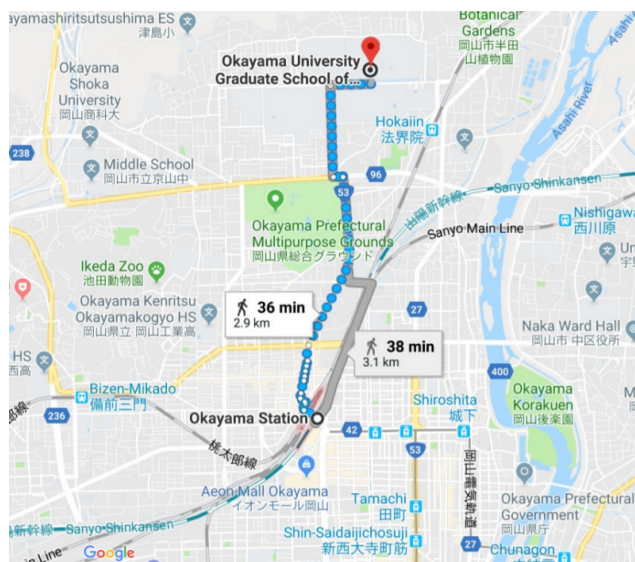


図 1 The route from Okayama Station to Conference