

— THE 22ND AFFINE ALGEBRAIC GEOMETRY MEETING —

DATE: 1ST MARCH – 3RD MARCH, 2024

VENUE: 新潟大学理学部 (FACULTY OF SCIENCE, NIIGATA UNIVERSITY) · A 棟 523 室

Program

★ 1st March (Friday)

■ 10:00–11:00: Hideo Kojima (Niigata University, Niigata)

Log multicanonical systems of smooth affine surfaces of log Kodaira dimension one

■ 11:15–12:15: Makiko Mase (Tokyo Metropolitan University, Hachioji)

On lattices and $K3$ surfaces admitting symplectic automorphism action

■ 14:00–15:00: Masaru Nagaoka (Gakushuin University, Tokyo)

Completions of the affine 3-space into del Pezzo fibrations

■ 15:15–16:15: Takanori Nagamine (National Institute of Technology, Oyama College, Oyama)

Factorial varieties with a torus action of complexity one

■ 16:30–17:30: Buddhadev Hajra (Indian Institute of Technology, Bombay, India)

Eilenberg-MacLane Spaces in Algebraic Surface Theory

★ 2nd March (Saturday)

■ 10:00–11:00: Akinari Hoshi (Niigata University, Niigata)

Rationality problem of two-dimensional quasi-monomial group actions

■ 11:15–12:15: Benjamin Collas (RIMS, Kyoto University, Kyoto)

Homotopic Galois theory: arithmetic principles

■ 14:00–15:00: Masatomo Sawahara (Hiroshima University, Hiroshima)

Some results on cylinders in Du Val del Pezzo surfaces

■ 15:15–16:15: Jaehyun Kim (Ewha Womans University, Seoul, Korea)

A Conjecture on K -stability and Cylindricity

■ 16:30–17:30: Masayoshi Miyanishi (Kwansei Gakuin University, Sanda)

Geometrically pure \mathbb{G}_a -action

★ 3rd March (Sunday)

- 9:15–10:15: Kayo Masuda (Kwansei Gakuin University, Sanda)
Singular loci of \mathbb{A}^1 -fibrations induced by \mathbb{G}_a -actions on affine 3-space
- 10:30–11:30: Yuri Yatagawa (Tokyo Institute of Technology, Tokyo)
Partially logarithmic characteristic cycles and index formula
- 11:45–12:45: Pedro Montero (Universidad Técnica Federico Santa María, Valparaíso, Chile)
On strictly elliptic $K3$ surfaces and del Pezzo surfaces
- 13:00–18:00: Free Discussion

Organizers:

Hideo Kojima (Niigata University)

Takashi Kishimoto (Saitama University)

Adrien Dubouloz (Université de Bourgogne, Université de Poitiers)