Compact moduli spaces of surfaces: functorial and combinatorial

April 3 - 11, 2017

Monday, April 3	15:00-17:30
Wednesday, April 5	15:00-17:30
Friday, April 7	15:00-17:30
Tuesday, April 11	10:00-12:30

127 Conference Room

Faculty of Science Bldg. #3
Kyoto University

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The lectures will go over several concrete examples of geometric compactifications of moduli spaces of surfaces and surface pairs.

The topics will include, in roughly this order:

- Dimension 1 case. Weighted curves. Losev-Manin spaces.
- Toric methods. Moduli of abelian surfaces and their covers.
- Matroidal methods. Weighted hyperplane arrangements and their covers.
- Higher-dimensional analogs of Losev-Manin spaces.
- Losev-Manin spaces for other Lie types.
- Compactifications of moduli of rational elliptic surfaces and of K3 surfaces.

◎ 本講義は「スーパーグローバルコース数学特別講義 1」として大学院の学生には 1 単位認定されます。

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