Special Seminar on $K3$ surfaces and Lattice theory

Period : September 10–12, 2018
Place : Sapporo Satellite Campus, Hokkaido University of Education (4th floor of Sapporo 55)

September 10 (Tue)

10:00-11:00   Viacheslav V. Nikulin (Steklov Mathematical Institute / University of Liverpool)
Classification of degenerations and Picard lattices of K3 surfaces
with finite symplectic automorphism groups (I)

11:20-12:20   Viacheslav V. Nikulin (Steklov Mathematical Institute / University of Liverpool)
Classification of degenerations and Picard lattices of K3 surfaces
with finite symplectic automorphism groups (II)

14:20-15:20   Hiroki Ito (Nagoya University)
Automorphisms of order 4 and 8 on Enriques surfaces

15:40-16:40   Katsuhisa Furukawa (University of Tokyo)
Cubic hypersurfaces with positive dual defects

September 11 (Wed)

10:00-11:00   Viacheslav V. Nikulin (Steklov Mathematical Institute / University of Liverpool)
Involutions of integral quadratic forms and their applications to
real algebraic geometry (I)

11:20-12:20   Viacheslav V. Nikulin (Steklov Mathematical Institute / University of Liverpool)
Involutions of integral quadratic forms and their applications to
real algebraic geometry (II)

14:20-15:20   Kenji Hashimoto (University of Tokyo)
Finite symplectic actions on the K3 lattice

15:40-16:40   Takayuki Koike (Osaka City University)
Gluing construction of non-projective K3 surfaces

September 12 (Thu)

10:00-11:00   Kazuki Utsumi (Ritsumeikan University)
Mordell-Weil lattices of Inose's elliptic K3 surfaces

11:20-12:20   Makoto Miura (Korea Institute for Advanced Study)
Complete intersection Calabi–Yau varieties in Hibi toric varieties

14:00- Free discussion

Organizers
Hirokazu Nasu (Tokai University)
Sachiko Saito (Hokkaido University of Education)
Shingo Taki (Tokai University)