$K3$, Enriques Surfaces and Related Topics

November 10–14, 2014

Sakata–Hirata Hall, Science South Bldg., Nagoya University

(Update: October 18, 2014)

November 10

11:00–12:00   Shigeru Mukai (RIMS, Kyoto University)
Enriques surface with $1,440$ symmetries

13:30–14:30   Hisanori Ohashi (Tokyo University of Science)
The automorphism groups of Enriques surfaces covered by symmetric quartic surfaces

15:00–16:00   Igor Dolgachev (University of Michigan, Ann Arbor)
Orbital counting of curves on algebraic surfaces

16:30–17:30   Shigeyuki Kondo (Nagoya University)
Enriques surfaces in characteristic 2 covered by the supersingular $K3$ surface with Artin invariant 1

Novemver 11

10:00–11:00   Keerthi Madapusi Pera (University of Chicago)
The Kuga–Satake construction in finite characteristic and its applications

11:30–12:30   Christian Liedtke (Technische Universität München)
Good Reduction of $K3$ Surfaces

14:30–15:30   Damiano Testa (University of Warwick)
$K3$ surfaces arising from arithmetic problems

16:00–17:00   Anthony Várilly-Alvarado (Rice University)
Special cubic fourfolds and $K3$ surfaces: an arithmetic perspective

18:00–20:00   *Banquet at Hananoki*

November 12

10:00–11:00   Yukinobu Toda (IPMU, University of Tokyo)
Stable pair invariants on Calabi–Yau 3-folds containing $\mathbf{P}^2$

11:30–12:30   Emanuele Macrì (Ohio State University)
Stability conditions on abelian threefolds

Afternoon: *free discussion*

November 13

10:00–11:00   Kota Yoshioka (Kobe University)

                Stable sheaves on Enriques surfaces

11:30–12:30   Max Lieblich (University of Washington)

                Curves in moduli via moduli of sheaves

14:30–15:30   JongHae Keum (KIAS)

                TBA

16:00–17:00   Valery Gritsenko (Université Lille 1)

                On the coverings of the moduli space of Enriques surfaces:
solution of Kondo's problem

November 14

10:00–11:00   Shohei Ma (Tokyo Institute of Technology)

                On the Kodaira dimension of some orthogonal modular varieties

11:30–12:30   Valery Alexeev (University of Georgia)

                On functorial compactifications of moduli of $K3$ surfaces

14:30–15:30   Radu Laza (IAS/Stony Brook University)

                Moduli of degree 4 $K3$ surfaces revisited

16:00–17:00   Nick Shepherd-Barron (King's College London)

                Algebraic groups and simultaneous log resolutions of elliptic singularities