

WORKSHOP ON CALABI–YAU MANIFOLDS  
ARITHMETIC, GEOMETRY AND PHYSICS

AUGUST 7–8, 2017

Gakushuin University, South Building 7, Room 101

Organized by S. Hosono (Gakushuin) and N. Yui (Queen’s)

PROGRAM

AUGUST 7, 2017

- 9:30am–10:30am **Hosono, Shinobu** (Gakushuin University)  
*Gluing monodromy nilpotent cones in mirror symmetry of Calabi-Yau manifolds*
- 10:30am–11:30am **Hashimoto, Kenji** (University of Tokyo)  
*K3 surfaces and Pell’s equation*
- 11:30am–12:30pm **Carnahan, Scott** (University of Tsukuba)  
*51 constructions of the Moonshine module*
- 12:30pm–2:00pm **Lunch**
- 2:00pm–3:00pm **Nakayashiki, Atsushi** (Tsuda University)  
*Degeneration of trigonal curves and corresponding solutions of the KP-hierarchy*
- 3:00pm–4:00pm **Ogata, Shoetsu** (Tôhoku University)  
*On toric 3-folds defined by quadrics*
- 4:00am–5:00pm **Ohashi, Hisanori** (Tokyo University of Science, Noda)  
*On automorphisms of Enriques surfaces and their entropy*
- 5:30pm **Workshop Dinner**

AUGUST 8, 2017

- 9:30am–10:30am **Shimada, Ichiro** (Hiroshima University)  
*Rational double points on complex Enriques surfaces*
- 10:30am–11:30pm **Kondo, Shigeyuki** (Nagoya University)  
*Classification of Enriques surfaces with finite automorphism group in characteristic 2*
- 11:30am–12:30pm **Yoshikawa, Sho** (Gakushuin University)  
*On modularity of elliptic curves over certain totally real fields*
- 12:30pm–2:00pm **Lunch**
- 2:00pm–3:00pm **Kanazawa, Atsushi** (Kyoto University)  
*Weil–Petersson geometry on the space of Bridgeland stability conditions*
- 3:00pm–4:00pm **Hamanaka, Masashi** (Nagoya University)  
*Noncommutative Instantons and Reciprocity*
- 4:00pm–5:00pm **Yui, Noriko** (Queen’s University)  
*Supercongruences for rigid hypergeometric Calabi–Yau threefolds*
- 5:30pm **Workshop Dinner**

**Workshop venue:** South Building 7 (Minami 7 Gou-kan), which is numbered 13 th in the map  
<http://www.gakushuin.ac.jp/mejiro.html>