

# Classification, Computation, and Construction: New Methods in Geometry

Mon 15th-Wed 17th October 2018

Organiser: Miles Reid

## PROGRAMME

### Mon 15th Oct

- 10:30-11:30 **Fabian Haiden** (Harvard) *Categorical Kaehler geometry* (MS.05)  
12:00-14:00 Lunch break in Mathematics Institute Common Room  
14:00-15:00 **Martin Ulirsch** (Frankfurt) *From algebraic to tropical divisors (and back again)* (B3.02)  
15:00-15:30 Tea/coffee break in Mathematics Institute Common Room  
15:30-16:30 **Travis Mandel** (Edinburgh) *Towards log quantum cohomology* (B3.02)  
17:00-18:00 **Ali Crow** (Bath) *Birational geometry of symplectic quotient singularities* (B3.02)  
18:30 Dinner in Mathematics Institute Common Room

### Tue 16th Oct

- 9:00-10:00 **Al Kasprzyk** (Nottingham) *Quiver mutations from the view of Fanosearch* (B3.02)  
10:00-10:15 Tea/coffee break in Mathematics Institute Common Room  
10:15-11:45 Discussion: Open Problems, Future Aims (in Mathematics Institute Common Room)  
12:00-13:00 **Tom Ducat** (Heilbronn, Bristol) *Constructing Fano 3-folds from cluster varieties* (B3.03)  
13:00-14:00 Lunch break in Mathematics Institute Common Room

### Joint meeting with COW

- 14:00-15:00 **Ziquan Zhuang** (Princeton) *Birational superrigidity and K-stability* (MS.05)  
15:00-16:00 **Paul Hacking** (UMass) *Mirror symmetry for Fano varieties* (MS.04)  
16:00-16:30 Tea/coffee break in Mathematics Institute Common Room  
16:30-17:30 **Dhruv Ranganathan** (MIT) *Logarithmic Gromov-Witten theory with expansions* (B3.03)  
17:45 3CinG Steering committee meeting (B1.12)  
19:30 Workshop dinner in Arden House

### Wed 17th Oct

- 9:00-10:00 **Stephen Coughlan** (Bayreuth) *On explicit constructions of canonical 3-folds* (B3.02)  
10:00-10:30 Tea/coffee break in Mathematics Institute Common Room  
11:00-12:00 **Miles Reid** (Warwick) *Some explicit deformations* (B3.02)  
12:00-13:00 Lunch break in Mathematics Institute Common Room  
14:00-15:00 **Michel van Garrel** (Warwick) *Genus zero log Gromov-Witten invariants of maximal tangency* (MS.03)  
15:00-15:30 Tea/coffee break in Mathematics Institute Common Room  
16:30-17:30 **Mark Gross** (DPMMS) *Canonical scattering diagrams* (MS.03)