

**K-stability and Birational Geometry**  
**25-29 September 2023**  
**L4**

**Schedule**

**Monday 25 September**

- 9:30-10:30 Hamid Abban, *Limits of quartic 3-folds*  
10:30-11:00 Coffee  
11:00-12:00 Kento Fujita, *K-stability of Casagrande--Druel varieties*  
12:00-14:00 Lunch  
14:00-15:00 Carolina Araujo, *Gale duality, blowups and moduli spaces*  
15:00-15:30 Coffee  
15:30-16:30 Hendrik Suss, *Boundedness of K-semistable hypersurface cone singularities via normalised volume*  
16:30-17:30 Arman Sarikyan, *Varieties with an ample divisors of numerically trivial canonical class*

**Tuesday 26 September**

- 9:30-10:30 Anne-Sophie Kaloghiros, *On one-dimensional K-moduli spaces of Fano 3-folds*  
10:30-11:00 Coffee  
11:00-12:00 Takuzo Okada, *Birationally solid Fano 3-fold hypersurfaces*  
12:00-14:00 Lunch  
14:00-15:00 Thibaut Delcroix, *Fano spherical varieties of small dimension and rank*  
15:00-15:30 Coffee  
15:30-16:30 Ana Maria Castravet, *Higher Fano manifolds*  
16:30-17:30 Cristiano Spotti, *Some examples of bubbling for Kähler-Einstein metrics*

**Wednesday, 27 September – Clay Research Conference, L1**

- 10:00-11:00 Valentin Blomer, *Density theorems and applications*  
11:00-11:30 Coffee  
11:30-12:30 John Pardon, *Derived moduli spaces of pseudo-holomorphic curves*  
12:30-14:00 Lunch  
14:00-15:00 Laure Saint Raymond, *What does entropy measure?*  
15:00-15:30 Coffee  
15:30-16:30 Chenyang Xu, *Kähler-Einstein metric, K-stability and moduli spaces*  
16:30-17:30 Ivan Smith, *The work of John Pardon*  
Isabelle Gallagher, *The work of Frank Merle, Pierre Raphaël, Igor Rodnianski, Jérémy Szeftel*  
Presentation of the 2022 and 2023 Clay Research Awards  
17:30-19:00 Reception in the Mathematical Institute

**Thursday 28 September**

- 9:30-10:30 Kristin De Vleming, *Moduli of boundary polarized log Calabi Yau pairs*  
10:30-11:00 Coffee  
11:00-12:00 Zsolt Patakfalvi, *Varieties with nef anti-canonical has surjective Albanese*  
12:00-14:00 Lunch

- 14:00-15:00 Lena Ji, *The K-moduli of a family of conic bundle threefolds*  
15:00-15:30 Coffee  
15:30-16:30 Eveline Legendre, *The Einstein-Hilbert functional and the Donaldson-Futaki invariant*  
16:30-17:30 Nivedita Viswanathan, *Log Canonical Thresholds of high multiplicity plane curves*

**Friday 29 September**

- 9:30-10:30 Ruadháil Dervan, *Divisorial stability of projective varieties*  
10:30-11:00 Coffee  
11:00-12:00 Giulio Codogni, *A lower bound on the volume of KSB moduli spaces*  
12:00-14:00 Lunch  
14:00-15:00 Paolo Cascini, *Foliation adjunction*  
15:00-16:00 Jesus Martinez Garcia, *Computational Geometric Invariant Theory*