

Symplectic Geometry, Low Dimensional Topology, and Quantum Fields
25-29 September 2023
L1

Schedule

Monday 25 September

- 9:30-10:30 Mohammed Abouzaid, *Flow categories and derived orbifolds*
10:30-11:00 Coffee
11:00-12:00 Mina Aganagic, *Homological link invariants from Floer theory*
12:00-14:00 Lunch
14:00-15:00 Lenhard Ng, *New algebraic invariants of Legendrian links*
15:00-15:30 Coffee
15:30-16:30 Sergei Gukov, *$SL(2, \mathbb{C})$ Floer theory and quantum groups at generic q*

Tuesday 26 September

- 9:30-10:30 Aleksander Doan, *An invitation to the Fueter equation*
10:30-11:00 Coffee
11:00-12:00 Monica Jinwoo Kang, *Finding isomorphic superconformal field theories*
12:00-14:00 Lunch
14:00-15:00 Ivan Smith, *Bordism of flow modules and exact Lagrangians*
15:00-15:30 Coffee
15:30-16:30 Yan Soibelman, *Holomorphic Floer Theory and resurgence*

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, Jérémie 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 Thomas Walpuski, *The Gopakumar–Vafa finiteness conjecture*
10:30-11:00 Coffee
11:00-12:00 Rinat Kashaev, *Generalized TQFTs from local fields*
12:00-14:00 Lunch
14:00-15:00 Maxim Kontsevich, *Singularity spectra of critical loci*
15:00-15:30 Coffee
15:30-16:30 Pietro Longhi, *Quiver structures of knot invariants, open strings, and recursion*

Friday 29 September

- 9:30-10:30 Tian Yang, *Recent progress on the Volume Conjectures for various quantum invariants*
- 10:30-11:00 Coffee
- 11:00-12:00 Kenji Fukaya, *Gromov Hausdorff convergence of filtered A infinity category and its (potential) application to Lagrangian correspondence and Gauge theory*
- 12:00-14:00 Lunch
- 14:00-15:00 Sunghyuk Park, *Quantum UV-IR map and curve counts in skeins*
- 15:00-15:30 Coffee
- 15:30-16:30 Vivek Shende, *Quantum cluster transformations from skein valued curve counting*