

Workshop on  
“Categorification in quantum topology and beyond”

January 7 – 18, 2019

organized by

Nils Carqueville (ESI, U Vienna), Anton Mellit (U Vienna),  
Paul Wedrich (Australian National U, Canberra)

Week 2

January 14 – 18, 2019

• **Monday, January 14, 2019**

09:00 – 09:30 **Registration**

09:30 – 10:30 **Anna Beliakova**

*Hopf algebras and non-semisimple 3D TQFTs*

10:30 – 11:00 *Coffee / Tea Break*

11:00 – 12:00 **Anthony Licata**

*Geometric group theory and spherical twists*

12:00 – 12:30 *Discussion*

12:30 – 14:15 *Lunch Break*

14:15 – 15:15 **Sergei Gukov**

*Logarithmic CFTs and 3-manifolds*

15:15 – 15:45 *Coffee / Tea Break*

15:45 – 16:45 **Ingmar Saberi**

*Supersymmetric field theories, invariants of manifolds, and nilpotence varieties*

• **Tuesday, January 15, 2019**

09:00 – 10:00 **Jacob Rasmussen**

*Covering spaces and the decategorification of bordered Floer homology*

10:00 – 10:30 *Coffee / Tea Break*

10:30 – 11:30 **Catharina Stroppel**

*DAHA actions on fusion algebras*

11:30 – 12:30 *Discussion*

12:30 – 14:15 *Lunch Break*

14:15 – 15:15 **Joel Kamnitzer**

*Categorification of tensor products and symplectic duality*

15:15 – 15:45 *Coffee / Tea Break*

15:45 – 16:45 **David Jordan**

*Factorization homology and quantum cluster varieties*

- **Wednesday, January 16, 2019**

09:00 – 10:00 **Krzysztof Putyra**

*A quantum colored  $sl(2)$  knot homology: three approaches, same invariant*

10:00 – 10:30 *Coffee / Tea Break*

10:30 – 11:30 **Christian Blanchet**

*Invariants of links with flat connection from non restricted quantum  $sl(2)$*

11:30 – 12:30 **Piotr Sułkowski**

*Topological strings, knots and quivers*

12:30 – 14:15 *Lunch Break*

14:15 – 18:00 *free afternoon*

18:00-late *Conference Dinner*

- **Thursday, January 17, 2019**

09:00 – 10:00 **Daniel Tubbenhauer**

*A primer on finitary 2-representation theory*

10:00 – 10:30 *Coffee / Tea Break*

10:30 – 11:30 **Raphaël Rouquier**

*Higher tensor structures*

11:30 – 12:30 **Erik Carlsson**

*Affine Schubert calculus and diagonal coinvariants*

12:30 – 14:15 *Lunch Break*

14:15 – 15:15 **Joshua Sussan**

*$p$ -DG structures in higher representation theory*

15:15 – 15:45 *Coffee / Tea Break*

15:45 – 16:45 **Arik Wilbert**

*Categorified tangle invariants and Springer fibers*

- **Friday, January 18, 2019**

09:00 – 10:00 **Pedro Vaz**

*Categorification of Verma modules and beyond*

10:00 – 10:30 *Coffee / Tea Break*

10:30 – 11:30 **Eugene Gorsky**

*The full twist category*

11:30 – 12:30 **Emily Norton**

*Do finite groups of Lie type and Cherednik algebras speak to each other?*

12:30 – 14:15 *Lunch Break*

14:15 – 15:15 *Discussion*

15:15 – 15:45 *Coffee / Tea Break*

15:45 – 16:45 *Discussion*

**All talks take place at ESI, Boltzmann Lecture Hall.**