

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 *Discussion*

11:30 – 12:30 **Catharina Stroppel**

DAHA actions on fusion algebras

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*

18:30-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!