

Actions of Tensor Categories on C^* -algebras

Thursday January 21, 2021

- 7:55–8:00 *Welcome & Opening Remarks: Dean Miguel García-Garibay (Dean of Physical Sciences, UCLA) and Dima Shlyakhtenko (Director, IPAM)*
- 8:00–8:20 **Stuart White** (University of Oxford)
Introduction to Workshop: Actions of Tensor Categories on C^ -algebras*
- 8:20 *Session Chair David Penneys (Ohio State)*
- 8:20–9:10 **Kristin Courtney** (Westfälische Wilhelms Universität Münster)
Mini Course: The abstract approach to classifying C^ -algebras*
- 9:20–9:30 *Break*
- 9:30–10:20 **Stefaan Vaes** (KU Leuven)
Mini Course: Outer actions of amenable groups on von Neumann algebras
- 10:30–10:40 *Break*
- 10:40–11:30 **José Carrión** (Texas Christian University)
Mini Course: The abstract approach to classifying C^ -algebras*

Friday January 22, 2021

- 8:00 *Session Chair Stuart White (Oxford)*
- 8:00–8:50 **Gabor Szabo** (KU Leuven)
Mini Course: Classification of group actions on C^ -algebras*
- 9:00–9:30 *Discussion - Moderator: Emily Peters (Loyola Chicago)*
- 9:40–9:50 *Break*
- 9:50–10:40 **Makoto Yamashita** (University of Oslo)
Mini Course: Unitary rigid tensor (and 2-)categories, and their actions on operator algebras



Monday January 25, 2021

- 8:00 *Session Chairs Julia Plavnik (Indiana) and Adam Skalski (Polish Acad. of Sci.)*
- 8:00–8:30 **André Henriques** (University of Oxford)
Various things acted on by fusion categories
- 8:40–9:10 **Samuel Evington** (Westfälische Wilhelms Universität Münster)
Symmetries of Operator Algebras
- 9:15–9:25 *Break*
- 9:25–9:55 *Discussion - Moderators: David Penneys (Ohio State) and Stuart White (Oxford)*
- 9:30–9:45 **Karen Strung** (Czech Academy of Sciences (AVCR))
Discussion Session: A very quick introduction to the Jiang-Su algebra
- 9:55–10:05 *Break*
- 10:05–10:35 **Claudia Pinzari** (Università di Roma "La Sapienza")
Weak quasi-Hopf algebras associated to Verlinde fusion categories
- 10:45–11:15 **Lauren Ruth** (Mercy College)
Von Neumann Equivalence

Tuesday January 26, 2021

- 8:00 *Session Chairs James Gabe (Univ. So. Denmark) and Aaron Tikuisis (Ottawa)*
- 8:00–8:30 **Christopher Schafhauser** (University of Nebraska-Lincoln)
Non-stable extension theory and the classification of C -algebras Christopher Schafhauser
- 8:40–9:10 **Sarah Reznikoff** (Kansas State University)
Cartan subgroupoids of twisted groupoid C^ -algebras*
- 9:15–9:25 *Break*
- 9:25–9:55 *Discussion - Moderators: David Penneys (Ohio State) and Stuart White (Oxford)*
- 9:55–10:05 *Break*
- 10:05–10:35 **Huaxin Lin** (University of Oregon)
Non-unital Simple Z -absorbing C^ -algebras*
- 10:45–11:15 **Corey Jones** (North Carolina State University)
Building pointed fusion category actions on C^ -algebras*

Wednesday January 27, 2021

- 8:00 *Session Chairs Fred Goodman (Iowa) and Emily Peters (Loyola Chicago)*
- 8:00–8:30 **Eusebio Gardella** (Westfälische Wilhelms Universität Münster)
Crossed products by partial actions
- 8:40–9:10 **Lara Ismert** (Embry-Riddle Aeronautical University)
Heisenberg Pairs on Hilbert C^ -modules*
- 9:15–9:25 *Break*
- 9:25–9:55 *Contributed Short Talks and Discussion*
- 9:55–10:05 *Break*
- 10:05–10:35 **Marius Dadarlat** (Purdue University)
Obstructions to matrix stability of discrete groups
- 10:45–11:15 **Rolando de Santiago** (Purdue University)
 L^2 cohomology and maximal rigid subalgebras of s -malleable deformations

Thursday January 28, 2021

- 8:00 *Session Chairs David Penneys (OSU) and Dima Shlyakhtenko (IPAM/UCLA)*
- 8:00–8:30 **Luca Giorgetti** (Università degli Studi di Roma "Tor Vergata")
Distortion for II_1 multifactor inclusions and bimodules
- 8:40–9:10 **Sorin Popa** (University of California, Los Angeles (UCLA))
On the mathematical legacy of Vaughan Jones: FACTOR SYMMETRIES ARE QUANTIZED
- 9:15–9:25 *Break*
- 9:25–9:55 *Problem Session - Moderator: Aaron Tikuisis (Univ. Ottawa)*
- 9:55–10:05 *Break*
- 10:05–10:35 **Ulrich Pennig** (Cardiff University)
Fell bundles, Dixmier-Douady theory and higher twists
- 10:45–11:15 **Julia Plavnik** (Indiana University)
Classifying small fusion categories
- 11:30 *Conclusion*

