Dr. Jonathan M. Wilson

CONTACT INFORMATION

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RESEARCH INTERESTS

Algebra, Geometry, Combinatorics and Topology: More specifically, I am interested in cluster algebras (from surfaces), generalised versions of cluster algebras, combinatorial theory of polytopes.

EMPLOYMENT

Eberhard-Karls-Universität Tübingen, Germany

Postdoctoral Researcher, October 2017–present

- Adviser: Prof. Christoph Bohle

EDUCATION

Durham University, UK

Ph.D., Pure Mathematics, October 2013–May 2017

- Adviser: Dr Anna Felikson
- Area of Study: Cluster Algebras

University of Cambridge, UK

MASt, Part III, October 2012–2013

- Area of Study: Pure Mathematics

Swansea University, UK

BSc., Mathematics, October 2009–2012

PREPRINTS

[1] *Laurent phenomenon algebras arising from surfaces II - laminated surfaces.* In preparation.

PUBLICATIONS

[2] *Shellability and sphericity of finite quasi-arc complexes.* 10.1007/s00454-017-9929-0, accepted to Discrete and Computational Geometry, 2017.

[3] *Laurent phenomenon algebras arising from surfaces.* 10.1093/imrn/rnw341, accepted to International Mathematics Research Notices, 2016.

TALKS AT INTERNATIONAL CONFERENCES

- Nonorientable Surfaces and their cluster structure. In: *University Notre Dame: Quivers and Bipartite Graphs: Physics and Mathematics*, May 2–6, 2016.
- The cluster structure of non-orientable surfaces. In: *Münster: Cluster Algebras and Geometry*, March 10–12, 2016.
- Wilson, J. Quasi-cluster algebras and the structure of the finite type exchange graphs. In: *KIAS; Korea: Young Mathematicians Workshop on Cluster Algebras*, December 12, 2014.
- Wilson, J. Quasi-cluster algebras from non-orientable surfaces. In: *Cardiff University: LMS Workshop on Cluster Algebras and Preprojective Algebras*, October 17–18, 2014.

Seminar Talks

- Triangulated non-orientable surfaces and their flip structure. In: *University of Manchester Geometry Seminar*, March 3, 2016.
- The structure of arc complexes. In: *Durham University Gandalf Seminar*, October 13, 2015.

Teaching Experience

Eberhard-Karls-Universität Tübingen, Germany

Lecturer for Cluster Algebras. **October 2017 - present**

Durham University, UK

Tutor for Algebra II. **October 2015 - May 2017**

- 2nd year undergraduate course in *Groups*, *Rings* and *Fields*. Tutor for 3 groups of aprox. 15 students.

Tutor for Algebra II. **October 2014 - May 2015**

- 2nd year undergraduate course in *Groups*, *Rings* and *Fields*. Tutor for 2 groups of aprox. 15 students.

Other Meeting Attendance

General Participant

- New Trends in Representation Theory: The Impact of Cluster Theory in Representation Theory, *Leicester, UK*, June 19 – 23, 2017.
- Joint Notre Dame - La Sapienza workshop on lie theory and cluster algebras, *Rome, Italy*, October 17–21, 2016.
- Total Positivity: A bridge between Representation Theory and Physics, *Canterbury, UK*, January 7 – 12, 2016.
- Journées de Géométrie Hyperbolique, *Fribourg, Switzerland*, October 15 – 16, 2015.
- GEAR Junior Retreat, *Ann Arbor, Michigan*, May 23 – June 1, 2014.
- IRMA Master Class : Around Thurston-Grothendieck-Teichmüller theories, *Strasbourg, France*, February 9–17, 2014.
- 3rd Young Geometric Group Theory Meeting, *Luminy, France*, January 20–24, 2014.

Awards

Eberhard-Karls-Universität Tübingen

- Teach@Tübingen Award, 2017–2018

Durham University

- EPSRC Doctoral Scholarship, 2013–2017

Swansea University

- Institute of Mathematics Prize, 2011–2012
- Senior Foulkes Prize in Mathematics, 2011–2012
- Lynne Charles Prize in Mathematics, 2010–2011
- Junior Foulkes Prize in Mathematics, 2009–2010