Curriculum Vitæ

Liron Speyer

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Education

2011–2015   PhD, Mathematics, Queen Mary University of London, supervisor Dr Matthew Fayers. Thesis: Representation theory of Khovanov–Lauda–Rouquier algebras.

2007–2011   MMath, Mathematics, The University of Warwick. First class honours.

Positions held

2015–   JSPS Postdoctoral Fellowship, Osaka University. Working with Professor Susumu Ariki.

2015   Visiting postdoc, University of East Anglia. Working with Dr Sinéad Lyle. Supported by 150th Anniversary Postdoctoral Mobility Grant, LMS.

Grants and awards

2015   Research in Pairs – Scheme 4, LMS (Co-Investigator).

2014   150th Anniversary Postdoctoral Mobility Grant, LMS.

2012   Eileen Colyer Prize, Queen Mary University of London.

Research interests

Representation theory of symmetric groups, Ariki–Koike algebras and Khovanov–Lauda–Rouquier algebras.

Publications (See my arXiv page)

Preprints (submitted)

8. On the semisimplicity of the cyclotomic quiver Hecke algebra of type C, arXiv:1704.07655.

7. Specht modules for quiver Hecke algebras of type C, *with Susumu Ariki and Euiyong Park*, arXiv:1703.06425.

6. An analogue of row removal for diagrammatic Cherednik algebras, *with Chris Bowman*, arXiv:1601.05543.

Published papers

accepted 5. On bases of some simple modules of symmetric groups and Hecke algebras, *with Melanie de Boeck, Anton Evseev and Sinéad Lyle*, Transform. Groups, *to appear*, arXiv:1606.06939.

4. Kleshchev's decomposition numbers for diagrammatic Cherednik algebras, *with Chris Bowman*, Trans. Amer. Math. Soc., *to appear*, arXiv:1507.06631, DOI.

2017 3. A family of graded decomposition numbers for diagrammatic Cherednik algebras, *with Chris Bowman and Anton Cox*, Int. Math. Res. Not. IMRN. **2017** (2017), no. 9, 2686–2734, arXiv:1503.07088, DOI.

2016 2. Generalised column removal for graded homomorphisms between Specht modules, *with Matthew Fayers*, J. Algebraic Combin. **44** (2016), no. 2, 393–432, arXiv:1404.4415, DOI.

2014 1. Decomposable Specht modules for the Iwahori–Hecke algebra $\mathscr{H}_{\mathbb{F},-1}(\mathfrak{S}_n)$, J. Algebra **418** (2014), 227–264, arXiv:1308.4296, DOI.

Invited talks

2017	Dec.	Representation Theory of Symmetric Groups and Related Algebras, Institute for Mathematical Sciences, National University of Singapore.
2017	May	Representation theory seminar, Kyoto University.
2016	Nov.	Mathematics Seminar, Korea Institute for Advanced Study, Seoul.
2016	Jun.	London Algebra Colloquium, City University London.
2016	May	NUS Representation theory seminar, National University of Singapore.
2015	Nov.	Symposium on representation theory 2015, Izunagaoka, Shizuoka prefecture.
2015	Aug.	Representation theory of Hecke algebras, City University London.
2015	Apr.	Algebra and Combinatorics seminar, Tulane University, New Orleans.
2015	Feb.	Birmingham algebra seminar, University of Birmingham.
2015	Feb.	Cambridge algebra seminar, University of Cambridge.
2015	Jan.	York algebra seminar, The University of York.
2014	Nov.	London Algebra Colloquium, Imperial College London.
2014	Nov.	Leeds algebra seminar, University of Leeds.

Other talks

2017	Jun.	Young Algebraists' Conference 2017, École Polytechnique Fédérale de Lausanne.
2017	May	Short course (8 hours) on diagrammatic Cherednik algebras, Osaka University.
2016	Dec.	Symposium on representation theory 2016, Okinawa.
2016	Jun.	Short course (10 hours) on Universal graded Specht modules, Osaka University.
2015	Nov.	Osaka Representation Theory Seminar, Osaka City University.
2015	Sep.	Pure Maths Research Seminar, University of East Anglia.
2014	Jul.	Representations of symmetric groups, Hecke algebras and KLR algebras, University of Birmingham.
2014	May	Study group on representations of the symmetric group, City University London.
2014	Mar.	Study group on representations of the symmetric group, City University London.
2013	Feb.	Pure Mathematics Colloquium, Queen Mary University of London.

Teaching and outreach

2011–2015	Teaching assistant for a broad range of algebra and geometry modules, Queen Mary University of London.
2013	Representing Queen Mary's pure mathematics research group at "Research in the UK" event for Part III students, University of Cambridge.
2010–2011	Taught all core first year modules to small supervision groups, The University of Warwick.

Journals refereed for

- Journal of Algebra.
- Journal of Pure and Applied Algebra.
- Science China Mathematics.

Reviewed for

- Zentralblatt MATH,
- MathSciNet Mathematical Reviews.

Academic Society Membership

- London Mathematical Society.