

Ján Špakula

Lecturer in Pure Mathematics (since 2013)

School of Mathematical Sciences, Faculty of Social Sciences, University of Southampton
SO17 1BJ, United Kingdom

Phone: +44 23 8059 3137 Email: jan.spakula@soton.ac.uk URL: <https://spakula.github.io>

Publications & talks

JOURNAL ARTICLES (SELECTED)

- “Measured expanders”, with Kang Li and Jiawen Zhang, *Journal of Topology and Analysis* (2022) [\[DOI\]](#)
- “Quasi-local Algebras and Asymptotic Expanders”, with Kang Li, Piotr Nowak, and Jiawen Zhang, *Groups, Geometry, and Dynamics* (2021) [\[DOI\]](#)
- “Quasi-locality and Property A”, with Jiawen Zhang, *Journal of Functional Analysis* (2020) [\[DOI\]](#)
- “Relative commutant pictures of Roe algebras”, with Aaron Tikuisis, *Comm. in Math. Phys.* (2019) [\[DOI\]](#)
- “A metric approach to limit operators”, with Rufus Willett, *Transactions of AMS* (2017) [\[DOI\]](#)
- “Strong hyperbolicity”, with Bogdan Nica, *Groups, Geometry and Dynamics* (2016) [\[DOI\]](#)
- “On rigidity of Roe algebras”, with Rufus Willett, *Advances in Mathematics* (2013) [\[DOI\]](#)
- “Uniform local amenability”, with Jacek Brodzki, Graham Niblo, Rufus Willett and Nick Wright, *Journal of Noncommutative Geometry* (2013) [\[DOI\]](#)
- “Maximal and reduced Roe algebras of coarsely embeddable spaces”, with Rufus Willett, *Journal für Reine und Angewandte Mathematik (Crelle)* (2013) [\[DOI\]](#)
- “Coarse amenability and coarse embeddings”, with Goulmira Arzhantseva and Erik Guentner, *Geometric and Functional Analysis (GAFA)* (2012) [\[DOI\]](#)
- “Controlled coarse homology and isoperimetric inequalities”, with Piotr Nowak, *J. of Topology* (2010) [\[DOI\]](#)
- “Uniform K-homology”, *Journal of Functional Analysis* (2009) [\[DOI\]](#)

SUBMITTED PREPRINTS

- “Measured asymptotic expanders and rigidity for Roe algebras”, with Kang Li and Jiawen Zhang

TALKS (SELECTED)

- “Measured asymptotic expanders and rigidity of Roe algebras”: Interactions between expanders, groups and operator algebras workshop, Münster, Germany (virtually) (10 June 2021)
- “On quasi-locality”: Operator Theory Seminar at University of Virginia (virtually) (1 Dec 2020)
- “Quasi-locality and asymptotic expanders”: Functional Analysis seminar, University of Oxford (18 Feb 2020)
- “Quasi-locality and Property A”: Special session on recent advances in coarse geometry, AMS Sectional Meeting, Auburn, AL (16 Mar 2019)
- “Coarse medians and Property A”: Groups, Dynamics, and Operator Algebras; Queen Mary, University of London (20 Jul 2016)

Grants, honors & awards

- EPSRC Standard Grant EP/V002899/1, Boundary repⁿs of non-positively curved groups (2021-24)
- Research in Pairs, London Mathematical Society Scheme 4 (2018; with B. Nica)
- Career Integration Grant “Coarse Analysis”, within the FP7-PEOPLE-2013-CIG Marie Curie Actions programme (2015-2019)
- Research-in-Teams at Erwin Schrödinger International Institute, Vienna, Austria (2013; with E. Guentner and R. Willett)
- B. F. Bryant Prize for Excellence in Teaching, Vanderbilt University, USA (2008)