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Uddannelse og Ansættelser

Positions

- 2015 - present: Associate Professor (Lektor) at University of Southern Denmark
- 2013 - 2015: Assistant Professor (Adjunkt) at University of Southern Denmark
- 2012 - 2013: Postdoc at the Katholieke Universitet Leuven (Belgium)
- 2010 - 2011: Postdoc at the Georg-August-Universität Göttingen (Germany). Funded by a postdoctoral grant from the Danish Research Council (FNU).
- 2009 (fall): Visiting researcher at the Hausdorff Research Institute for Mathematics, Bonn (Germany).
- 2008 - 2009 Postdoc at the Georg-August-Universität Göttingen (Germany).

Education

- May 2008 PhD in Mathematics from the University of Copenhagen (Denmark)
- Feb. 2005 MSc (Cand.Scient) in Mathematics from the University of Copenhagen (Denmark).

Publikationer

• Preprints

1. D. Kyed, Sven Raum, Matthias Valzekens and Stefaan Vaes, L2-Betti numbers of rigid C^* -tensor categories and discrete quantum groups, Preprint, arXiv:1701.06447.
2. J. Bichon, D. Kyed and S. Raum, Higher l2-Betti numbers of universal quantum groups, Preprint (submitted), arXiv:1612.07706.
3. D. Kyed and S. Raum, On the l2-Betti numbers of universal quantum groups, Preprint (submitted), arXiv:1610.05474 .
4. D. Kyed and H.D. Petersen, Quasi-isometries of nilpotent groups, Preprint (under revision) arXiv:1503.04068.

• Peer reviewed journal publications

5. D. Kyed, Topologizing Lie algebra cohomology, *Differential Geometry and its Applications* 49, 2016
6. D. Kyed, Henrik D. Petersen and Stefaan Vaes, L2-Betti numbers of locally compact groups and their cross section equivalence relations, *Transactions of the AMS* 367, 2015.
7. V. Alekseev and D. Kyed, Measure continuous derivations on von Neumann algebras and applications to L2-cohomology, *Journal of Operator Theory* 73 (1), 2015.
8. D. Kyed and Henrik D. Petersen, A groupoid approach to Lück's amenability conjecture, *Osaka Journal of Mathematics* 51 (4), 2014.
9. D. Kyed and A. Thom, Applications of Følner's condition to quantum groups, *Journal of Noncommutative Geometry* 7 (2), 2013.
10. V. Alekseev and D. Kyed, Amenability and vanishing of L2-Betti numbers: an operator algebraic approach, *Journal of Functional Analysis*, 263 (4), 2012.

11. D. Kyed and P. M. Soltan, Property (T) and exotic quantum group norms, *Journal of Noncommutative Geometry* 6 (4), 2012.
12. D. Kyed, An L₂-Künneth formula for tracial algebras, *Journal of Operator Theory*, 67 (2), 2012.
13. D. Kyed, On the zeroth L₂-homology of compact quantum groups, *Münster Journal of Mathematics*, no. 4, 2011.
14. D. Kyed, A cohomological description of property (T) for quantum groups, *Journal of Functional Analysis*, 261 (2011).
15. D. Kyed, L₂-Betti numbers of coamenable quantum groups, *Münster Journal of Mathematics*, no. 1, 2008.
16. D. Kyed, L₂-homology for compact quantum groups, *Mathematica Scandinavica*, 103 (1), 2008.

• **Other publications**

17. D. Kyed, L₂-invariants for quantum groups, PhD thesis. ISBN 978-87-91927-22-5.
18. D. Kyed, Uniqueness of group-measure space Cartan subalgebras, Expository notes following Adrian Ioana's IHP lectures, May 2011, arXiv:1110.3508.

Bevillinger

2015-2018: Villum Foundation Research Grant (DKK 4,596,900 = € 617,493)
Research grant, jointly with (Uffe Haagerup) and Wojciech Szymanski (PI)

2013-2015: Lundbeck Foundation research grant (DKK 1,255,706 = € 168,446)
David Kyed (PI)

2010-2012: Danish Research Council (FNU) Postdoctoral Grant (DKK 1,238,098 = € 166,056)
David Kyed (PI)

Inviterede foredrag

- 42 invited research talks, including invitations as main speaker at the following:
 - NCGOA 2016 at the Hausdorff Institute (Bonn, Germany), 2016.
 - Classification and set theory at the Mittag-Leffler institute (Stockholm, Sweden), 2016.
 - Operator Spaces, Locally Compact Quantum Groups & Amenability (Toronto, May 2014). - Operator algebras and Quantum groups at IMPAN (Warsaw, Poland), 2011.
 - Operator algebraic aspects of quantum groups at KU Leuven (Leuven, Belgium), 2008.
- 9 invited survey talks for broader mathematical audiences and outreach lectures for non-experts.

Yderligere information

Se <http://www.imada.sdu.dk/~dkyed/cv.pdf> for mere information