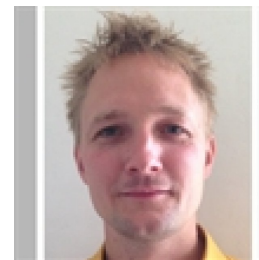


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Ansættelse

Institut for Matematik og Datalogi
SDU
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1. jul. 2023 → present

Lektor

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Legater

DFF-Research Project 2, Four years research grant, Principal Investigator: Mikael Rørdam, Project: *Operator Algebras, Groups, and Quantum Spaces*. July 2021-December 2025.

DFF-Research Project 1, Three years research grant, Principal Investigator: David Kyed, Project: *Classical and Quantum Distances*. September 2019-September 2022.

DFF-Research Project 2, Four years research grant, Principal Investigator: Wojciech Szymanski, Project: *Automorphisms and Invariants of Operator Algebras*. August 2017-August 2021.

Carlsberg Foundation, One year research stipend for Paris VII, Project: *Controlled K-homology*. September 2011-September 2012.

Editorial work

Editor of *Annals of Functional Analysis (AOFA)*
Editor of *Bulletin and Journal of the London Mathematical Society*

Publikationer

Morita invariance of unbounded bivariant K-theory

Kaad, J., okt. 2024, I: *Annals of Functional Analysis*. 15, 4, 54 s., 88.

Spectral metrics on quantum projective spaces

Mikkelsen, M. H. & Kaad, J., 15. jul. 2024, I: *Journal of Functional Analysis*. 287, 2, 38 s., 110466.

The Haar state on the Vaksman-Soibelman quantum spheres

Mikkelsen, M. H. & Kaad, J., jun. 2023, I: *Mathematica Scandinavica*. 129, 2, s. 337-356

A Comparison of Two Quantum Distances

Kaad, J. & Kyed, D., mar. 2023, I: *Mathematical Physics, Analysis and Geometry*. 26, 1, 9 s., 8.

Kernels of Hilbert module maps: a counterexample

Kaad, J. & Skeide, M., 2023, I: *Journal of Operator Theory*. 89, 2, s. 343-348

The Podleś Spheres Converge to the Sphere

Aguilar, K., Kaad, J. & Kyed, D., jun. 2022, I: Communications in Mathematical Physics. 392, 3, s. 1029-1061

Index theory on the Miščenko bundle

Kaad, J. & Proietti, V., apr. 2022, I: Kyoto Journal of Mathematics. 62, 1, s. 103-131

Polynomial approximation of quantum Lipschitz functions

Aguilar, K., Kaad, J. & Kyed, D., 2022, I: Documenta Mathematica. 27, s. 765-787

Gysin sequences and $SU(2)$ -symmetries of C^* -algebras

Arici, F. & Kaad, J., dec. 2021, I: Transactions of the London Mathematical Society. 8, 1, s. 440-492

Gromov-Hausdorff convergence of quantised intervals

Kyed, D., Kaad, J. & Gøtfredsen, T., 15. aug. 2021, I: Journal of Mathematical Analysis and Applications. 500, 2, 13 s., 125131.

Dynamics of compact quantum metric spaces

Kaad, J. & Kyed, D., jul. 2021, I: Ergodic Theory and Dynamical Systems. 41, 7, s. 2069-2109

The unbounded Kasparov product by a differentiable module

Kaad, J., 2021, I: Journal of Noncommutative Geometry. 15, 2, s. 423-487

Tate tame symbol and the joint torsion of commuting operators

Kaad, J. & Nest, R., 20. jun. 2020, I: Annals of K-Theory. 5, 2, s. 181-211

Factorization of Dirac Operators on Almost-Regular Fibrations of Spin^C Manifolds

Kaad, J. & Suijlekom, W. D. V., 2020, I: Documenta Mathematica. 25, s. 2049-2084

On the unbounded picture of kk -theory

Kaad, J., 2020, I: Symmetry, Integrability and Geometry: Methods and Applications. 16, 21 s., 082.

On a theorem of Kucerovsky for half-closed chains

Kaad, J. & Van Suijlekom, W. D., jun. 2019, I: Journal of Operator Theory. 82, 1, s. 115-145 31 s.

Canonical holomorphic sections of determinant line bundles

Kaad, J. & Nest, R., 2019, I: Journal für die reine und angewandte Mathematik. 746, s. 67-116 50 s.

The Podleś sphere as a spectral metric space

Aguilar, K. & Kaad, J., nov. 2018, I: Journal of Geometry and Physics. 133, s. 260-278

Algebraic K-theory and a semifinite Fuglede-Kadison determinant

Hochs, P., Kaad, J. & Schemaitat, A., mar. 2018, I: Annals of K-Theory. 3, 2, s. 193-206

Riemannian submersions and factorization of Dirac operators

Kaad, J. & van Suijlekom, W. D., 1. jan. 2018, I: Journal of Noncommutative Geometry. 12, 3, s. 1133-1159 27 s.

Factorization of Dirac operators on toric noncommutative manifolds

Kaad, J. & van Suijlekom, W. D., 2018, I: Journal of Geometry and Physics. 132, s. 282-300

On the Global Limiting Absorption Principle for Massless Dirac Operators

Carey, A., Gesztesy, F., Kaad, J., Levitina, G., Nichols, R., Potapov, D. & Sukochev, F., 2018, I: Annales Henri Poincaré. 19, 7, s. 1993-2019

Operator *-correspondences in analysis and geometry

Blecher, D., Kaad, J. & Mesland, B., 2018, I: Proceedings of the London Mathematical Society. 117, 2, s. 303-344

Corrigendum to "A local global principle for regular operators in Hilbert C-modules" [J. Funct. Anal. 262 (10) (2012) 4540–4569]

Kaad, J. & Lesch, M., 2017, I: Journal of Functional Analysis. 272, 10, s. 4403-4406

Differentiable absorption of Hilbert C*-modules, connections and lifts of unbounded operators

Kaad, J., 2017, I: Journal of Noncommutative Geometry. 11, 3, s. 1037-1068

Topological invariance of the homological index

Carey, A. & Kaad, J., 2017, I: Journal fuer die Reine und Angewandte Mathematik. 2017, 729, s. 229-261

On a spectral flow formula for the homological index

Carey, A., Grosse, H. & Kaad, J., 5. feb. 2016, I: Advances in Mathematics. 289, s. 1106-1156

Pimsner algebras and Gysin sequences from principal circle actions

Arici, F., Kaad, J. & Landi, G., 2016, I: Journal of Noncommutative Geometry. 10, 1, s. 29-64

Anomalies of Dirac type operators on Euclidean space

Carey, A., Grosse, H. & Kaad, J., apr. 2015, I: Communications in Mathematical Physics. 335, 1, s. 445-475

A transformation rule for the index of commuting operators

Kaad, J. & Nest, R., 2015, I: Journal of Noncommutative Geometry. 9, 1, s. 83-119

Spectral flow and the unbounded Kasparov product

Kaad, J. & Lesch, M., 25. nov. 2013, I: Advances in Mathematics. 248, s. 495-530 36 s.

A Serre-Swan theorem for bundles of bounded geometry

Kaad, J., 15. nov. 2013, I: Journal of Functional Analysis. 265, 10, s. 2465-2499 35 s.

A local global principle for regular operators in Hilbert C*- modules

Kaad, J. & Lesch, M., 2012, I: Journal of Functional Analysis. 262, 10, s. 4540-4569 30 s.

A twisted spectral triple for quantum SU(2)

Kaad, J. & Senior, R., 2012, I: Journal of Geometry and Physics. 62, 4, s. 731-739

Joint torsion of several commuting operators

Kaad, J., 2012, I: Advances in Mathematics. 229, 1, s. 442-486

KK-theory and spectral flow in von Neumann algebras

Kaad, J., Nest, R. & Rennie, A., 2012, I: Journal of K-Theory. 10, 2, s. 241-277

A calculation of the multiplicative character

Kaad, J., 2011, I: Journal of Noncommutative Geometry. 5, 3, s. 351-385

Comparison of secondary invariants of algebraic KK-theory

Kaad, J., 2011, I: Journal of K-Theory. 8, 1, s. 169-182

Organisering af workshops og konferencer

- **Noncommutative geometry along the North Sea**, University of Southern Denmark, August 2024.
- **International Workshop on Operator Theory and its Applications**, University of Helsinki, Finland, Special session: *Noncommutative geometry*, August 2023.
- **Nordic Congress of Mathematicians Aalto**, Finland, Special session: *Operator algebras and Noncommutative geometry*, August 2022.
- **University of Copenhagen**, Denmark, Conference: *Nest Celebration*, June 2022.
- **Lorentz center Leiden**, Netherlands, Workshop: *Noncommutative geometry along the North Sea*, June 2022.
- **University of Copenhagen**, Denmark, Conference: *Automorphisms and invariants of operator algebras*, October 2021.
- **Mathematisches Forschungsinstitut Oberwolfach**, Germany, Mini-Workshop: *Operator spaces and Noncommutative geometry in interaction*, February 2016.
- **Radboud University Nijmegen**, The Netherlands, Workshop: *KK-days*, April 2015 and November 2015.

Invited talks (2016-2024)

- **IWOTA 2024 (Special session: Noncommutative Geometry and Operator Spaces)**, University of Kent, Canterbury, August 2024.
- **Conference on Noncommutative Geometry and Applications**, Palazzone of the Scuola Normale Superiore, Cortona, June 2024.
- **Annual Meeting: CaLISTA'24**, Institute of Mechanics of Bulgarian Academy of Sciences, Sofia, May 2024.
- **Workshop on Geometry and analysis of quantum groups**, *University of Oslo*, November 2023.
- **IWOTA 2023 (Special session: Noncommutative geometry)**, *University of Helsinki*, July 2023.
- **NSeaG 2023 Workshop on Noncommutative Geometry and Operator Algebras**, *Hausdorff Center for Mathematics*, Bonn, May 2023.
- **Quantum mathematics research seminar**, *University of Southern Denmark, Odense*, October 2022.
- **North Atlantic NCG seminar**, *Online, Polish Academy of Sciences, Warszawa*, May 2022.
- **Noncommutativity in the North - A Marcus Wallenberg Symposium**, *University of Gothenburg, Sweden*, March 2022.
- **Noncommutative Geometry and Topology Seminar**, *Czech Academy of Sciences, Prague*, November 2021.
- **Seminar Geometric Methods in Mathematics**, *Technisches Universit"at Dresden, Germany*, November 2021.
- **Seminar algebra-geometry-combinatorics**, *Technisches Universit"at Dresden, Germany*, November 2021.
- **NYC Noncommutative geometry seminar**, *Online, New York City, USA*, August 2021.
- **Hilbert C^* -modules online weekend**, *Online*, December 2020.
- **Global Noncommutative Geometry Seminar**, *Online*, November 2020.
- **Newcastle functional analysis seminar**, *Online, University of Newcastle*, November 2020.
- **NCG learning seminar**, *University of Copenhagen*, September 2020.
- **Operator algebra seminar**, *University of Copenhagen*, December 2019.
- **Conference on Noncommutative manifolds and their symmetries**, *Grand Hotel De Rose*, September 2019.
- **Operator algebra seminar**, *University of Southern Denmark, Odense*, March 2019.
- **SFB-lecture, Higher-Invariants**, *Universität Regensburg, Regensburg*, January 2019.
- **Masterclass on Bivariant K-theory in Geometry and Physics**, *Erwin Schrödinger Institute, Vienna*, November 2018.
- **QGM Seminar**, *Center for Quantum Geometry of Moduli Spaces, Aarhus*, September 2018.
- **Workshop on Noncommutative Geometry**, *Index Theory and Mathematical Physics, Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach*, July 2018.
- **27th International Conference on Operator Theory**, *Institute of Mathematics Simion Stoilow of the Romanian Academy, Timisoara*, June 2018.
- **Workshop on Secondary and delocalized index invariants**, *University of Copenhagen, Copenhagen*, June 2018.
- **Colloquium on Geometry and Quantum Theory**, *Utrecht University, Nijmegen*, May 2018.
- **Danish Operator Algebra Symposium**, *University of Southern Denmark, Odense*, May 2018.
- **Conference on New Geometry of Quantum Dynamics**, *Banach center, Warsaw*, January 2018.

- Oberseminar "Global Analysis and Operator Algebras", *University of Bonn, Bonn*, January 2018.
- Séminaire d'Algèbres d'Opérateurs, *Institut de Mathématiques de Jussieu, Université de Paris VII*, October 2017.
- Operator algebra seminar, *University of Southern Denmark, Odense*, October 2017.
- Workshop on Analysis, Noncommutative Geometry, Operator Algebras, *Chalmers, Gothenburg*, May 2017.
- Great Plains Operator Theory Symposium (GPOTS), *Texas Christian University, Fort Worth*, May 2017.
- Workshop on KK-theory, Gauge theory and Topological phases, *Lorentz center, Leiden*, March 2017.
- Operator algebra seminar, *University of Southern Denmark, Odense*, November 2016.
- Conference on Noncommutative Index Theory, *Banach center, Warsaw*, October 2016.
- Masterclass in sums of selfadjoint operators: Kasparov products and applications, *University of Copenhagen, Copenhagen*, July 2016.
- Workshop on Spectral Triples in Noncommutative Geometry, *Villa Toeplitz, Varese*, May 2016.
- Conference on Gauge Theory and Noncommutative Geometry, *Radboud university, Nijmegen*, April 2016.
- Quantum gravity seminar, *Radboud University, Nijmegen*, January 2016.