

Tab 1

Marcel Scherer

Fachrichtung Mathematik,
Saarland University
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Education & Employment

Ph.D. in Mathematics
Saarland University, Saarbrücken
Jan 2022 - Present

Supervisor: Prof. Michael Hartz

M.Sc. in Mathematics
Saarland University, Saarbrücken
Apr 2020 – Apr 2022

Supervisor: Prof. Jörg Eschmeier, Prof.
Michael Hartz
Thesis: *Spectra of Quotient Modules*

B.Sc. in Mathematics
Saarland University, Saarbrücken
Oct 2015 – Apr 2020

Supervisor: Prof. Jörg Eschmeier
Thesis: *Essential Spherical Isometries*

Publications

Preprints:

- 1) *The Hyperrigidity Conjecture for compact convex sets in \mathbb{R}^2* (2024), [arXiv:2411.11709](https://arxiv.org/abs/2411.11709)

Published:

- 1) *A Finite Dimensional Counterexample for Arveson's Hyperrigidity Conjecture* (2025), Bull. Lond. Math. Soc., [arXiv:2502.10286](https://arxiv.org/abs/2502.10286)
- 2) *Spectra of typical Hilbert space operators*, Israel J. Math. (2024), [arXiv:2310.1849](https://arxiv.org/abs/2310.1849)
- 3) *Spectra of Quotient Modules*, J. Funct. Anal. 286 (2024), No. 3, Paper No. 110223, 14 pp., (with Michael Didas, Jörg Eschmeier, Michael Hartz), [arXiv:2306.02997](https://arxiv.org/abs/2306.02997)
- 4) *Essential spherical isometries*, Acta Sci. Math. (Szeged) 86 (2020), No. 3-4, 667-670, [arXiv:2105.05731](https://arxiv.org/abs/2105.05731)

Presentations

Jan 2025 - *Research Seminar, Copenhagen: "the lattice of C^* -covers of an operator algebra"*

May 2024 - *Conference on Spaces of analytic functions and their operators, Saarbrücken: "Spectra of Quotient Modules"*

Mar 2022 - *Math and Hike Day, Saarbrücken: "Dilations and co-meager sets"*

Jul 2021 - *Research Seminar Noncommutative and Functional Analysis, Saarbrücken: "Spectra of Quotient Modules"*

Conferences Attended

- Spaces of analytic functions and their operators (Universität des Saarlandes in Germany, 2024)
- Non-commutative Function Theory and Free Probability, (Mathematisches Forschungsinstitut Oberwolfach in Germany, 2024)
- IWOTA (International Workshop on Operator Theory and Applications), Helsinki, Finland (2023)
- ACOTCA (Advances in Complex and Operator Theory Conference), Thessaloniki, Greece (2023)
- IWOTA (International Workshop on Operator Theory and Applications), Jagiellonian, Polen (2022)

Referee for Journals

- Results in Mathematics, RIMA
- Journal of Operator Theory, JOT

Teaching Experience (Saarland University)

- Fall 2023, Teaching Assistant Analysis 3
- Spring 2023, Student Seminar on Analysis.
- Spring 2022, Seminar on completely positive maps
- 2023/2024, Substitute for some Analysis and Functional Analysis lectures
- Various tutoring activities in Analysis, Complex Analysis, Functional Analysis, and Hardy Spaces (2017–2022)