

Curriculum Vitae

Martin Bohata

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Education

- 2019 Habilitation in Applied Mathematics, Czech Technical University in Prague, Faculty of Electrical Engineering.
- 2013 RNDr. degree in Mathematical Analysis, Charles University in Prague, Faculty of Mathematics and Physics.
- 2013 Ph.D. degree in Mathematical Engineering, Czech Technical University in Prague, Faculty of Electrical Engineering.
- 2007 M.Sc. degree in Theoretical Physics, Charles University in Prague, Faculty of Mathematics and Physics.

Employment

- 2019-present Associate professor, Czech Technical University in Prague, Faculty of Electrical Engineering, Department of Mathematics.
- 2010-2019 Assistant professor, Czech Technical University in Prague, Faculty of Electrical Engineering, Department of Mathematics.
- 2007-2008 Technical staff, Czech Technical University in Prague, Faculty of Electrical Engineering, Department of Physics.

Teaching Experience

Real Analysis, Complex Analysis and Integral Transforms, Optimization and Game Theory, Discrete Mathematics, Linear Algebra, Logic.

Research Interests

Functional Analysis (especially Operator Algebras), Measure Theory, Topology, Mathematical Structures of Quantum Theory.

Grants

- 2023-2025 Interplay of algebraic, metric, geometric and topological structures on Banach spaces, Grant Agency of the Czech Republic, no. 23-04776S; position: participant.
- 2018-2023 The project Centre of Advanced Applied Sciences (CAAS), Ministry of Education Youth and Sports (co-financed by European Union), no. CZ.02.1.01/0.0/0.0/16_019/0000778; position: young researcher.
- 2017-2019 Topological and Geometrical Properties of Banach Spaces and Operator Algebras II, Grant Agency of the Czech Republic, no. 17-00941S; position: participant.
- 2012-2016 Topological and Geometrical Properties of Banach Spaces and Operator Algebras, Grant Agency of the Czech Republic, no. P201/12/0290; position: participant.
- 2010-2012 Operator Algebras and Quantum Structures, Czech Technical University in Prague, no. SGS10/264/OHK3/3T/13; position: principal investigator.
- 2008-2011 Applied Mathematics in Technical and Physical Sciences, Ministry of Education, Youth and Sports, no. MSM6840770010; position: participant.
- 2008–2009 Algebraic and Measure Theoretic Aspects of Quantum Structures, Grant Agency of the Czech Republic, no. 201/07/1051; position: participant.

Selected Publications

- M. Bohata: *Isomorphisms of spectral lattices*, Banach J. Math. Anal. **16**, 1–16 (2022).
- M. Bohata: *Spectral order isomorphisms and AW^* -factors*, Math. Nachr. **295**, 6–21 (2022).
- M. Bohata: *Vigier theorem for the spectral order and its applications*, J. Math. Anal. Appl. **476**, 801–810 (2019).
- M. Bohata: *Star order and topologies on von Neumann algebras*, Mediterr. J. Math. **15**, Article 175 (2018).
- M. Bohata, J. Hamhalter, O. F. K. Kalenda, A. M. Peralta, and H. Pfitzner: *Preduals of JBW^* -triples are 1-Plichko spaces*, Q. J. Math. **69**, 655–680 (2018).
- M. Bohata, J. Hamhalter, and O. F. K. Kalenda: *Decompositions of preduals of JBW and JBW^* algebras*, J. Math. Anal. Appl. **446**, 18–37 (2017).
- M. Bohata and J. Hamhalter: *Star order on operator and function algebras and its nonlinear preservers*, Linear Multilinear A. **64**, 2519–2532 (2016).
- M. Bohata, J. Hamhalter, and O. F. K. Kalenda: *On Markushevich bases in preduals of von Neumann algebras*, Israel J. Math. **214**, 867–884 (2016).