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Research interest: Operator theory, C^* -algebras, Hilbert C^* -modules, Frames, Wavelets

Recent publications:

- [1] Lj. Arambašić, R. Rajić, *The Birkhoff-James orthogonality in Hilbert C^* -modules*, **Linear Algebra Appl.** **437** (2012), no. 7, 1913-1929.
- [2] Lj. Arambašić, R. Rajić, *A strong version of the Birkhoff-James orthogonality in Hilbert C^* -modules*, **Ann. Funct. Anal.** **5** (2014), no. 1, 109-120.
- [3] Lj. Arambašić, R. Rajić, *Operator version of the best approximation problem in Hilbert C^* -modules*, **J. Math. Anal. Appl.** **413** (2014), no. 1; 311-320.
- [4] Lj. Arambašić, R. Rajić, *On three concepts of orthogonality in Hilbert C^* -modules*, **Linear and Multilinear Algebra** **63** (2015), no. 7, 1485-1500.
- [5] Lj. Arambašić, R. Rajić, *Operators preserving the strong Birkhoff-James orthogonality on $B(H)$* , **Linear Algebra Appl.** **471** (2015), 394--404.

Selected publications:

- [1] Lj. Arambašić, D. Bakić, R. Rajić, *Dimension functions of orthonormal wavelets*, **J. Fourier Anal. Appl.** **13** (2007), 331-356.
- [2] Lj. Arambašić, D. Bakić, R. Rajić, *Dimension functions, scaling sequences, and wavelet sets*, **Studia Math.** **198** (2010), 1-32.
- [3] Lj. Arambašić, R. Rajić, *Operator version of the best approximation problem in Hilbert C^* -modules*, **J. Math. Anal. Appl.** **413** (2014), no. 1; 311-320.
- [4] Lj. Arambašić, R. Rajić, *On three concepts of orthogonality in Hilbert C^* -modules*, **Linear and Multilinear Algebra** **63** (2015), no. 7, 1485-1500.
- [5] Lj. Arambašić, R. Rajić, *Operators preserving the strong Birkhoff-James orthogonality on $B(H)$* , **Linear Algebra Appl.** **471** (2015), 394--404.