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Research interest: Harmonic analysis and wavelets, Operator theory, C^* -Algebras.

Recent publications:

- [1] D. Bakić, E. N. Wilson, *Scaling sets and orthonormal wavelets with dilations induced by expanding matrices*, to appear.
- [2] Lj. Arambašić, D. Bakić, R. Rajić, *Dimension functions of orthonormal wavelets*, **JFAA**, **13 (3)** (2007), 331-356.
- [3] D. Bakić, *Semi-orthogonal Parseval frame wavelets and generalized multiresolution analyses*, **Appl. & Comp. Harmonic Analysis**, **21 (3)** (2006), 281-304.
- [4] D. Bakić, *On admissible generalized multiresolution analyses*, **Grazer Mathematische Berichte**, **348** (2006), 15-30.
- [5] D. Bakić, I. Krishtal, E. N. Wilson, *Parseval frame wavelets with E_N^2 dilations*, **Appl. & Comp. Harmonic Analysis**, **19** (2005), 386-448.

Selected publications:

- [1] D. Bakić, *On the extension theory of matrix algebras*, **Glasnik matematički**, **25 (45)** (1990), 347-356.
- [2] D. Bakić, B. Guljaš, *Operators on Hilbert H^* -modules*, **Journal of Operator Theory**, **46** (2001), 123-141.
- [3] D. Bakić, B. Guljaš, *Wigner's theorem in a class of Hilbert C^* -modules*, **Journal of Mathematical Physics**, **44 (5)** (2003), 2186-2191.
- [4] D. Bakić, B. Guljaš, *Extensions of Hilbert C^* -modules*, **Houston Journal of Mathematics**, **30 (2)** (2004), 537-558.
- [5] D. Bakić, *Tietze extension theorem for Hilbert C^* -modules*, **Proc. Amer. Math. Soc.**, **133 (2)** (2005), 441-448.