

Seminar za funkcionalnu analizu

Damir Bakić

Weak frames in Hilbert C^* -modules and Gabor systems III

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Abstract

In the third talk in the series we introduce a concept of weak Bessel sequences and weak frames in self-dual Hilbert C^* -modules over von Neumann algebras. In this setting we will discuss the usual properties of frames and Bessel sequences such as correspondence with the analysis and the synthesis operators, the frame operator, the reconstruction formula, etc. In the second part of the talk we will show that similar results can be obtained for non-self-dual modules by working in the dual.