Seminar za funkcionalnu analizu

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

Abstract

In the second talk in the series we will introduce the Hilbert C^*-module $L_a^\infty(\ell^2)$ over the von Neumann algebra $L^\infty[0, a]$, $a > 0$, and discuss its relevance in Gabor analysis. In particular, we will show that each Gabor system can be interpreted as a system of translates in $L_a^\infty(\ell^2)$.