

The minimal redundancy property of frames and signal reconstruction

Ljiljana Arambašić, University of Zagreb

Workshop: Operator Days, 1 February 2019, Zagreb

Let $(x_n)_n$ be a frame for a Hilbert space H . We say that a finite set of indices E satisfies the minimal redundancy condition for $(x_n)_n$ if $\overline{\text{span}}\{x_n : n \in E\} = H$. Assuming E has the minimal redundancy condition we present a method for construction of a dual frame for $(x_n)_{n \in E^c}$ starting from a dual frame for $(x_n)_n$. The talk is based on joint works with Damir Bakić and Diana Stoeva. This research was supported by the Croatian Science Foundation under the project IP-2016-06-1046.