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Akram Aldroubi* (akram.aldroubi@vanderbiltedu). Bases and frames from iterates of operators.
Let $\mathcal{A}=\left\{A_{k}: k=0, \ldots, N\right\}$ be a set of operators in $\ell^{2}(\mathbb{N})$ and $S$ a subset of $\ell^{2}(\mathbb{N})$. We consider the problem of finding conditions on $\mathcal{A}$ and $S$ so that the set $E=\left\{A_{k}^{j} S: k=0, \ldots, N, j=0, \ldots, L\right\}$ form a bases/frame for $\ell^{2}(\mathbb{N})$. (Received January 13, 2015)

