ON EQUIVALENCE RELATIONS GENERATED BY SCHAUDELER BASES

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Abstract. Let \((x_n)\) be a sequence in a Banach space \(X\). We denote
\[
\text{coef}(X, (x_n)) = \{ a \in \mathbb{R}^\mathbb{N} : \sum_n a(n)x_n \text{ converges} \}.
\]

In this talk, we focus on Borel reducibility between equivalence relations of \(\mathbb{R}^\mathbb{N}/\text{coef}(X, (x_n))\). This kind of research begin from Dougherty and Hjorth’s results on \(\mathbb{R}^\mathbb{N}/\ell_p (p \geq 1)\) and \(\mathbb{R}^\mathbb{N}/c_0\).

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