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Infinite dimensional restricted invertibility and applications to Gabor frames

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The Bourgain-Tzafriri Restricted Invertibility Theorem states conditions under which a Riesz bases can be extracted from a possibly overcomplete system of vectors in finite dimensional spaces. We extend the result to vector dictionaries in infinite dimensional Hilbert spaces using techniques developed in the theory of localized frames, and we state applications to Gabor systems.

Tue/110 17:30–17:50