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Fourier Dimension and Translation-Invariant Linear Equations

Sets of large Fourier dimension often contain certain configurations that their counterparts of the same Hausdorff dimension may miss. In this talk we present an application of the strategies introduced by Yiyu Liang and Malabika Pramanik to confirm the intuition that any set of large Fourier dimension contains certain nontrivial patterns, in the form of solutions of translation-invariant linear equations with integer coefficients.