HARMONIC AND SPECTRAL ANALYSIS International Zoom Conference October 4–6, 2023

Non-periodic tilings of the real line by a function

NIR LEV Bar-Ilan University (joint work with MIHALIS KOLOUNTZAKIS)

By a *tiling* we mean a system $\{f(x-\lambda), \lambda \in \Lambda\}$ of translates of a function f that forms a partition of unity. The obvious examples of one-dimensional tilings are the periodic ones. I will present results and open problems on the existence of *non-periodic* tilings in one dimension.