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Fuglede's and generalized Fuglede's conjecture on \mathbb{R}^1

Fuglede's conjecture stated that translational tiles and spectral sets are equivalent. This conjecture was disproved by Tao, later by Kolountzakis and Matolcsi on \mathbb{R}^d , $d \geq 3$. The conjecture now remained open when d=1,2. In this talk, we reviewed some recent work on Fuglede's conjecture on \mathbb{R}^1 and proposed a generalized one which includes all fractal spectral measures.