HARMONIC AND SPECTRAL ANALYSIS

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Overview of Fuglede's conjecture on cyclic groups

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In the first part of my talk I will give a brief overview of the recent results connected to Fuglede's spectral set conjecture on cyclic groups. After that I will present my joint work with Thomas Fallon, Azita Mayeli and Gábor Somlai. We verified the spectral-tile direction of Fuglede's conjecture on cyclic groups of order p^2q^2r where p,q,r are primes and $r \geq p^2q^2$. I will discuss some new methods that we used in our proof.