The Fuglede conjecture holds in $\mathbb{Z}_p \times \mathbb{Z}_p$

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In this talk, we will review some of the most recent developments in the Fuglede Conjecture over the finite fields. In particular, we show that the conjecture holds for $\mathbb{Z}_p^2$, if p is prime. This is a joint work with Alex Iosevich and Jonathan Pakianathan.