

Affine sieve and expanders

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I will talk about the fundamental theorem of affine sieve (joint with Sarnak). The main black box in the proof of this result is a theorem on expanders. It gives a necessary and sufficient condition for a finitely generated subgroup of $SL(n, \mathbb{Q})$ under which the Cayley graphs of such a group modulo square free integers form a family of expanders (joint with Varju).