

Primes in thin sets

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Several long-standing problems in prime number theory are examples of asking whether there are infinitely many primes in a particular set which contains only $O(x^{1-\epsilon})$ integers less than x . The sparsity of such sets presents several difficulties. We will talk about some recent results showing the existence of infinitely many primes in certain sparse sets, such as the set of values of certain multivariate polynomials, or integers with digit restrictions.