

On squares in sumsets

Date Tuesday, April 7

Time 5:30 pm

Location 507 Math

Abstract: A finite set A of integers is square-sum-free if no subset of A sums up to a square. In 1986, Erdős posed the problem of determining the largest cardinality of a square-sum-free subset of $\{1, \dots, n\}$. In this talk, we shall try to answer this question, showing that this maximum cardinality is of order $n^{\frac{1}{3}+o(1)}$.