

abstract

ARITHMETIC COMBINATORICS

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

We will study the following problem:

Given n subsets $A_1, A_2, \dots, A_n \subset \mathbb{F}_q$ of a finite field \mathbb{F}_q with q elements. Let $|A_1| \cdot |A_2| \cdot \dots \cdot |A_n| > q^{1+\varepsilon}$ for some $\varepsilon > 0$, one needs to find a natural number $N(n, \varepsilon)$ such that $|A_1 A_2 \dots A_n| \geq N(n, \varepsilon)q$.

Several results of this type will be presented.