



# Department of Mathematics Seminar

## On some problems of additive combinatorics

By

**Ilya Shkredov**  
(Steklov Mathematical Institute)

**Abstract:** In our survey talk we will describe several problems from classical analysis, number theory, dynamical systems and additive combinatorics itself, where the methods of the latter science can be applied. Main topics are: linear equations in dense sets, quantitative versions of multiple recurrence, Kahane's problem on Banach algebra of functions with pointwise multiplication, the sum--product phenomenon and the Zaremba conjecture from the theory of the continued fractions.

**Date:** 16 June 2022

**Time:** 15:30

**Place:** Zoom

To request the event link, please send a message to [f.atay@bilkent.edu.tr](mailto:f.atay@bilkent.edu.tr)