



# Number Theory Seminar

## Sieves

By

**Tomos Parry**  
(Bilkent)

**Abstract:**

We will discuss one of the main tools of analytic number theory - sieves. Sieves let us count primes by "sifting out" certain composite numbers leaving us with (hopefully) only primes left over.

In a series of 3-4 seminars, we will discuss the basic sieve of Eratosthenes/Legendre, the combinatorial sieve of Brun, and then maybe the Selberg sieve, which is the basic tool in Maynard's result on bounded gaps in the last years.

**Date:** Friday, April 18, 2025

**Time:** 19:00

**Place:** SB-Z11