

**Title:** Affine sieve and expansion in linear groups.

**Abstract:** In the first part of this talk, we will see what affine sieve is and the best possible basic result on the subject. In particular, the connection with random walk on  $\prod_p \mathrm{GL}_n(\mathbb{F}_p)$  will be explained (sometimes called super-strong approximation). In the second part I will report on the new results on random walks on  $\prod_p \mathrm{GL}_n(\mathbb{Z}_p)$ .