Department of Mathematics Seminar

Variances of sequences in arithmetic progressions

By

Tomos Parry

Abstract: In order to better understand the error term when approximating the average order of a sequence one approach is to average this error over arithmetic progressions. In the 90s Vaughan and Goldston showed how the mean square error (the variance) can be tackled with the circle method, a classical method in additive number theory. We outline the argument and survey what's known about variances of different sequences.

Date: May 17, 2023
Time: 15:30
Place: Zoom
This is an online seminar. To request the event link, please send a message to
guloglua@fen.bilkent.edu.tr