



Mathematics and CS Seminar

Exponential sums and twisted multiplicativity

Emmanuel Kowalski

ETH Zürich

Host: Tim Browning

The additive exponential sums associated to an integral polynomial satisfy a property of twisted-multiplicativity. Using this, it is possible to exploit properties of these sums over finite fields to gain some understanding of the sums modulo all integers. This involves a fine interplay of algebraic methods and analytic techniques. The speaker will describe some of these, and explain in particular how to deduce that the mean value of these exponential sums vanishes for suitably generic polynomials. (Joint work with K. Soundararajan)

Thursday, January 7, 2021 02:00pm - 03:00pm

<https://mathseminars.org/seminar/AGNTISTA>



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.