



Mathematics and CS Seminar

Random Polynomials, Probabilistic Galois Theory, and Finite Field Arithmetic

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Host: Tim Browning

We will discuss recent advances on the following two questions: Let $A(X) = \sum \pm X_i$ be a random polynomial of degree n with coefficients taking the values $-1, 1$ independently each with probability $1/2$. Q1: What is the probability that A is irreducible as the degree goes to infinity? Q2: What is the typical Galois group of A ? One believes that the answers are YES and THE FULL SYMMETRIC GROUP, respectively. These questions were studied extensively in recent years, and we will survey the tools developed to attack these problems and partial results.

Thursday, December 17, 2020 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.