



Mathematics and CS Seminar

Weak approximation on the norm one torus

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Host: Tim Browning

For any abelian group A , we prove an asymptotic formula for the number of A -extensions K/Q of bounded discriminant such that the associated norm one torus $R_{K/Q}^1 G_m$ satisfies weak approximation. We will discuss how to parametrise abelian extensions in a convenient way so that the problem reduces to the estimation of a certain character sum. We will then estimate this character sum using Siegel-Walfisz and the large sieve. This is joint work with Nick Rome.

Thursday, October 12, 2023 01:00pm - 03:00pm

Heinzel Seminar Room (I21.EG.101), Office Building West, ISTA



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

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<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.