



Seminar/Talk

Integrals of Z-functions

Jonathan Bober

University of Bristol

Host: Tim Browning

The Z-function associated to an L-function is a rotated real-valued function defined so that $|Z(t)| = |L(1/2 + it)|$, so that critical zeros of $L(s)$ are real zeros, and presumably sign changes, of $Z(t)$. For the zeta function, the integral of $Z(t)$ is well-understood. I'll discuss the integral for (mostly) Dirichlet L-functions, and some phenomena in the spacings of zeros of zeta and L-functions discovered along the way. These phenomena seem to be governed by the vanishing/non-vanishing of certain Gauss-type sums. This is joint work with Zhenchao Ge and Micah Milinovich.

Wednesday, October 7, 2026 01:00pm - 02:00pm

Central Bldg / O1 / Mondi 2a (I01.O1.008)



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