

Number theory

Low-lying zeros of Artin L -functions

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In this talk we discuss the distribution of low-lying zeros of certain families of Artin L -functions attached to geometric parametrizations of number fields. We describe several explicit examples of such families and in each case we verify the Katz-Sarnak heuristics and present the symmetry type of the distribution of low-lying zeros.

This is joint work with Arul Shankar and Nicolas Templier.