
XIANNAN LI, Stanford University

Bounds on the least quadratic non-residue

In this talk, I will discuss joint work with K. Soundararajan on bounding the least quadratic non-residue on GRH. This improves previous bounds by E. Bach whose motivation for examining this problem arises from interesting applications in computational number theory. I will briefly describe this motivation as well as our improved bounds. Finally, I will speculate on "optimal" bounds on GRH.