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Distances between zeros of L-functions at small and large scales

In this talk I will review some of what is known about the statistical distribution of distances between zeros of the Riemann zeta-function, both at the smallest scale at which such considerations are sensible and at a substantially larger scale. I hope to also offer some speculations about connections to 'large scale' limit theorems in random matrix theory and discuss a connection to work of R. Murty and A. Zaharescu. If there is sufficient time I will also discuss more recent work with J. Lagarias regarding what this information can say about the smallest gaps between zeros.