



DEPARTMENTAL COLLOQUIM

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MOMENTS OF DIRICHLET L-FUNCTIONS

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Abstract:

One of the beautiful features of number theory is that to answer simple sounding questions about the integers, one has to take a detour through the world of other seemingly unrelated but wonderful and complex objects. For example, to determine whether the number of primes that are $1 \pmod{4}$ is the same as the number of primes that are $3 \pmod{4}$, one has to first understand the Dirichlet L-function, a close relative of the Riemann Zeta function. This talk will focus on the moments of Dirichlet L-functions. There will be a nice mix of different types of number theory.