

NUMBER THEORY & COMBINATORICS SEMINAR

Speaker: Habiba Kadiri
Date: 2007 Nov 7
Time: 3:00 – 3:50 pm
Room: L-1114
Title: About Vinogradov's bound for the three primes Goldbach's conjecture

Abstract:

Can any odd number greater than 5 be written as sum of 3 primes? In 1922, Hardy and Littlewood were the first to give a substantial answer to this question: using their Circle Method, they proved that, under the condition of the Generalized Riemann Hypothesis, it was true for sufficiently large integers. Fifteen years later, Vinogradov removed completely this hypothesis. His theorem remains one of the strongest results in the direction of Goldbach's conjecture. In this lecture, we will go through Vinogradov's proof, and understand how the distribution of the zeros of the Dirichlet L functions enter into play.