

Mathematics Colloquium

Yitang Zhang

(University of New Hampshire & Institute for Advanced Study)

Small Gaps Between Primes



One of the most famous conjectures in number theory, in fact, in all of mathematics, is the Twin Prime Conjecture: there are infinitely many pairs of primes within distance 2 of each other, e.g., (3,5), (11,13), (17,19). This is part of a larger study of the additive structure of the primes. The greatest advance in this subject is the recent work of Yitang Zhang who proved that there are infinitely many pairs of primes within fixed distance N of each other, thus opening the floodgates to subsequent work, by James Maynard and Terry Tao with many others, optimizing Zhang's distance N .

Everyone is welcome to a first hand account of these exciting results!

Thursday 4:00 pm April 03, 2014

SCGP Auditorium 103