

NUMBER THEORY SEMINAR

The Smoothed Polya-Vinogradov Inequality

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ABSTRACT: The smoothed Polya-Vinogradov inequality recently introduced by Levin, Pomerance and Soundararajan, is a useful tool for problems requiring numerically explicit estimates for character sums (such as estimating the least primitive root mod p or the least quadratic nonresidue mod p). In this talk we prove the inequality, prove some arithmetic versions of the inequality and show some applications.

WEDNESDAY, DECEMBER 5, 2012
2:40 - 4:00 PM
ROOM 527 WACHMAN HALL
DEPARTMENT OF MATHEMATICS