RUTGERS - CAMDEN MATH SEMINAR

11-12, FRIDAY OCT.15TH, BSB 132

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Dr. Will Lee

Rutgers University-Camden

Title: Deligne's Inequality and a Lower Bound for Ramanujan's Tau Function

Abstract: Here we give a stronger version of Lehmer's Conjecture that $|\tau(p)| > (1/3)p^3$, which implies the Lehmer's Conjecture. We then establish the sharp lower bound, $|\tau(p)| > p^4$, using basically the same method as the first one. Remarkably, A(p) turned to be periodic or semi-periodic from which we get the sharp lower bound.

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