

Department Colloquium

Speaker: Giovanni Coppola, University of Salerno

Date: Friday, October 14

Time: 2:30 p.m.

Place: Jeffery 234

Title: Sieve functions and finite Ramanujan expansions

Abstract: In this largely expository talk, we will define classes of arithmetic functions (say, sequences of complex numbers), the 'truncated divisor sums' and, from these, the 'sieve functions' (joining a hypothesis due to Ramanujan). Using elementary calculations (with finite sums) we will deduce, for these two classes, say, the "finite Ramanujan expansions". Playing with finite sums will be a fun experience, in order to get these formulae.