NUMBER THEORY SEMINAR

Mock ϑ-Functions of Order Three

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ABSTRACT: In his last letter to Hardy, Ramanujan gave a list of 17 mock ϑ-functions together with some identities that these functions satisfy. Of these seventeen, he described 4 as "order three", 10 as "order five", and 3 of "order seven". As part of his Ph.D thesis, Sander Zwegers relates 3 of the third order mock ϑ-functions to real analytic vector-valued modular forms of weight $\frac{1}{2}$. For this talk, I'll discuss Zwegers' work and the relation he gives between vector-valued forms and mock ϑ-functions.

WEDNESDAY, FEBRUARY 20, 2013
2:40 - 4:00 PM
ROOM 527 WACHMAN HALL
DEPARTMENT OF MATHEMATICS