

**Meeting:** 1000, Albuquerque, New Mexico, SS 12A, Special Session on Regularity in PDEs and Harmonic Analysis

1000-42-130            **Prabhu Janakiraman\*** (pjanakir@math.uiuc.edu), 1107 W Green St. Apt 334, Urbana, IL  
61801. *Limiting weak-type behavior of maximal functions on singular measures.* Preliminary report.  
Let  $M$  be the Hardy-Littlewood maximal operator and  $\nu$  a singular measure supported on an  $s$ -set  $E$ . The behavior of the weak-type inequality  $\lambda m\{x \in R^n : M\nu(x) > \lambda\}$  as  $\lambda \rightarrow \infty$  depends primarily on the structure of the set  $E$ . Some explorations into this question will be discussed. (Received August 21, 2004)