

Meeting: 1001, Evanston, Illinois, SS 8A, Special Session on Computability Theory and Applications

1001-03-143 **Theodore A. Slaman*** (slaman@math.berkeley.edu), Department of Mathematics, University of California, Berkeley, Berkeley, CA 94720-3840. *An Application of Kolmogorov Complexity to the Structure of Scott Sets.*

Harvey Friedman and Alex McAllister independently raised the following question. Suppose that S is a Scott Set and that A is a nonrecursive element of S . Is there an X in S such that A and X have incomparable Turing degree?

We will apply recent results of Hirschfeldt and Nies to answer this question affirmatively. (Received August 20, 2004)