1078-58-348 **Massimo Ferrarotti**, **Elisabetta Fortuna** and **Leslie Charles Wilson***
(les@math.hawaii.edu), University of Hawaii, Department of Mathematics, 2565 McCarthy Mall, Honolulu, HI 96822. *Algebraic approximation of semianalytic sets.* Preliminary report.

Two sets A and B are said to be s-equivalent at x if $H(A \cap S_r, B \cap S_r) = o(r^s)$, where S_r is the sphere of radius r centered at x, and H is the Hausdorff distance. We prove that a semianalytic set is, for each x and each s, s-equivalent to some algebraic variety at x. (Received December 13, 2011)