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Leslie C Wilson* (les@math.hawaii.edu), **Massimo Ferrarotti** and **Elisabetta Fortuna**.

Algebraic approximation of analytic and semi-analytic sets.

Two sets A and B in \mathbf{R}^n 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. They are tangential s -equivalent if the embedded tangent bundles are s -equivalent. We will describe various results about approximating analytic or semi-analytic sets by algebraic sets up to s - or tangential s -equivalence. (Received September 10, 2019)