

## LOCAL DIAMETERS OF COMPACT SETS

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*Abstract.* Given, in a normed space, a compact set  $K$  and  $P \in K$ , let  $r(K, P) = \max_{R \in K} \|P - R\|$ . For  $P_1 \in K$  we consider sequences  $P_i, i = 1, 2, \dots$ , such that  $\|P_{i+1} - P_i\| = r(K, P_i)$ . The behaviour of such sequences for  $K$  contained in the Euclidean plane, and their limits were studied by Alarcon and Stolarsky in [1]. Here we try to sharpen some of their results and to extend them to a more general setting.

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