

RELATING THE MINIMAL ANNULUS WITH THE CIRCUMRADIUS OF A CONVEX SET

M. A. HERNÁNDEZ CIFRE AND P. J. HERRERO PIÑEYRO

Abstract. In this paper we relate the minimal annulus of a planar convex body K with its circumradius, obtaining all the upper and lower bounds, in terms of these quantities, for some of the classic geometric measures associated with the set: the diameter, the minimal width and the inradius. We prove the optimal inequalities for each one of those problems, determining also its corresponding extremal sets.

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