

MINIMAL PERIODIC ORBITS FOR CONTINUOUS MAPS
OF THE CIRCLE HAVING A FIXED POINT

by

Lluís Alsedà and Jaume Llibre

Abstract. *In this paper we extend the notion of minimal periodic orbit, given for continuous maps of the interval, to continuous maps of the circle having a fixed point. The main result of this paper is to characterize the shape of these minimal periodic orbits. As a consequence, we improve the known lower bound of the topological entropy for a special class of maps of the circle of degree 0 or -1.*

1980 Mathematics Subject Classification: Primary 54H20

Key words and phrases: *Periodic point, minimal periodic orbit, simple periodic orbit, twist periodic orbit.*