

998-54-140

Gerardo Acosta* (gacosta@matem.unam.mx), Instituto de Matematicas, Ciudad Universitaria, Circuito Exterior, 04510 Mexico, D.F., Mexico. *Classes of circle-like continua which are C -determined.*

A **continuum** is a compact metric connected space. A continuum is said to be **circle-like** if it can be written as the inverse limit of simple closed curves with surjective bonding mappings. The hyperspace of subcontinua of a given continuum X is denoted by $C(X)$ and is considered with the Hausdorff metric. A class F of continua is said to be **C -determined** if whenever X and Y are continua such that hyperspaces $C(X)$ and $C(Y)$ are homeomorphic, it follows that X and Y are homeomorphic as well. In 1978 S. B. Nadler, Jr. asked if the class of circle-like continua is C -determined. In this talk we show some partial positive answers to this question. (Received February 23, 2004)