

Pseudo contractibility and R^4 continua

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In general topology there are many conditions that doesn't allow the contractibility or pseudo contractibility of topological spaces. It is known that if a continuum contains R^i sets, $i = 1, 2, 3$ it is not contractible or it is not pseudo contractible. We introduce the concept of R^4 continuum. In this talk we show the relationship among the R^i sets and R^4 continua and we will prove that if a continuum contains and R^4 continuum it is not pseudo contractible.

(joint work with David Maya Escudero, Mario Flores, Fernando Orozco Zitli)