# Weakly confluent images of the cylinder and cone over the Cantor set

**Jorge Marcos Martínez Montejano**
Facultad de Ciencias, UNAM
jorgemm@ciencias.unam.mx

Given an onto map $f : X \to Y$ between continua we sat that $f$ is *weakly confluent* if for each subcontinuum $B$ of $Y$ there is a subcontinuum $A$ of $X$ such that $f(A) = B$. In 1978 H. Cook and A. Lelek proved that among contunua the weakly confluent images of the cylinder over the Cantor are exactly the regular curves. We prove that for locally connected continua to be a confluent image of the cylinder of the Cantor set it is equivalent to be a confluent image of the cone over the Cantor set.
**(joint work with A. Illanes, V. Martínez de la Vega, D. Michalik)**