

1154-54-525

**Lynne Yengulalp\*** (yengull@wfu.edu), Winston-Salem, NC 27101. *Micro-homogeneity.*

A space  $X$  is homogeneous if for every two points  $x$  and  $y$  in  $X$  there is an auto-homeomorphism of  $X$  taking  $x$  to  $y$ . A local version of homogeneity is micro-homogeneity: given any two points  $x$  and  $y$  in  $X$  there are open neighborhoods  $U$  and  $V$  and a homeomorphism from  $U$  to  $V$  taking  $x$  to  $y$ .

We present some examples and show that some classical results about homogeneous spaces can be generalized to micro-homogeneous spaces. For example, van Douwen's result that the cardinality of a homogeneous space cannot exceed  $2^{\pi w(X)}$  is also true for micro-homogeneous spaces. (Received September 06, 2019)