2025/09/16 14:06 1/1 Mark Watkins (Syracuse)

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## A Characterization of Infinite Planar Imprimitive Graphs

## Abstract for the Colloquium 2005 February 3

The automorphism group of an infinite, locally finite, planar graph acts primitively on its vertex set if and only if the graph has connectivity 1 and, for some integer  $m \ge 2$ , every vertex is incident with exactly m lobes, all of which are finite. Specifically, either all of the lobes are isomorphic to  $K_4$  or all are circuits of length p for some odd prime p.

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