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### A Characterization of Infinite Planar Imprimitve Graphs

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Abstract for the Colloquium 2005 February 3

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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  $m \geq 2$ , 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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