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A Characterization of Infinite Planar Imprimitve 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 $m \geq 2$, 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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