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*On the Pancyclicity of  $k$ -quasi-transitive Digraphs of Large Diameter*

A digraph is  $k$ -quasi-transitive if for every  $uv$ -directed path of length  $k$  in  $D$ , the vertices  $u$  and  $v$  are adjacent. Wang and Zhang proved that, for even  $k$ , every  $k$ -quasi-transitive digraph of diameter at least  $k + 2$  has a Hamiltonian path, and asked whether it is possible to prove the existence of a Hamiltonian cycle under the same assumptions. In this talk we answer this question in the positive, and additionally prove that a digraph with these characteristics is indeed pancyclic.

This is joint work with Manuel Alejandro Juárez-Camacho.