

## Extensions of Pancyclicity

Megan Cream, Cedar Crest College

A graph  $G$  on  $n$  vertices is called *pancyclic* if it contains a cycle of every possible length, from three to the order of the graph. Further, a graph is vertex pancyclic (or edge pancyclic) if every vertex (edge) is contained on a cycle of every possible length, from three to  $n$ . Recently, these cycle properties and a few variations of these properties have been extended to chorded cycles. In this talk, we will discuss results on minimum degree and degree-sum conditions necessary to imply these pancyclicity properties in graphs.

Keywords: vertex pancyclicity, edge pancyclicity, chorded cycles