Extending Some Pancyclicity Results

Ronald J. Gould*, Emory University, Megan Cream, Lehigh University, Kazu Hirohata, Ibaraki College

A graph G or order $n \geq 3$ is pancyclic if G contains a cycle of each length from 3 to n, and vertex pancyclic (edge pancyclic) if every vertex (edge) is contained on a cycle of each length from 3 to n. A chord of a cycle is an edge between two nonadjacent vertices of the cycle, and a chorded cycle is a cycle inducing at least one chord. The graph G is chorded pancyclic if G contains a chorded cycle of each length from 4 to n. In this talk we consider some improvements of known results on chorded pancyclic, chorded vertex pancyclic, and chorded edge pancyclic graphs.