1067-05-903 **Paul Wrayno*** (pwrayno@emory.edu), Dept. of Mathematics and CS, Emory University, 400 Dowman Dr., W401, Atlanta, GA 30322, and Ronald J. Gould. *Edges in 2-factor Isomorphic Graphs.*

A graph G is considered 2-factor isomorphic if it contains a 2-factor F, and all other 2-factors are isomorphic to F. Alternatively, when a 2-factor is viewed as a multiset of unlabeled cycles, copies of F are the only 2-factors in G. Faudree, Gould, and Jacobson give a formula and a construction for the maximum number of edges for 2-factor hamiltonian graphs as a function of |V(G)|. In this talk we will generalize this result to any chosen 2-factor, any 2-factor with a fixed number of cycles, and any unspecified 2-factor. Constructions of graphs that attain these bounds will also be given. (Received September 16, 2010)