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Perfect 1-factorisations of circulant graphs of degree 4

A 1-factorisation of a graph G is a partition of the edge set of G into 1-factors. A 1-factorisation of a graph G is said to be perfect if the union of every pair of 1-factors in the 1-factorisation is a Hamilton cycle of G . The study of perfect 1-factorisations originated with questions posed by Kotzig almost 50 years ago, and many open problems remain. In this talk, some results on perfect 1-factorisations of circulant graphs of degree 4 will be presented.