

Hamilton decompositions

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The problem of partitioning the edge set of a graph into Hamilton cycles is a classical problem, with results dating back to the work of Walecki in the 1890s. Over the last 50 years, much work has been done on several open conjectures and problems that deal with Hamilton decompositions of certain families of graphs. I will survey some of this work and discuss a few recent developments, especially on Hamilton decompositions of vertex-transitive graphs, line graphs, and infinite graphs.