中国科学院数学与系统科学研究院 Academy of Mathematics and Systems Science, CAS

图论组合与网络研究中心

Center for Graph Theory, Combinatorics and Networks

学术报告

题 目: Some Problems and Results on Matching Covered Graphs

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地 点: 数学院南楼 602

數: A graph is called *matching covered* if it is connected, has at least one edge and each of its edges is contained in some perfect matching. Lovász proved that every matching covered graph may be decomposed into a unique list of bricks (3-connected bicritical graphs) and braces (2-extendable bipartite graphs). The importance of bricks and braces stems from the fact that several problems from matching theory can be reduced to bricks and braces (for example, computing the dimension of the linear hull and lattice of incidence vectors of perfect matchings, or characterizing Pfaffian graphs). In this talk, we report recent progress on bricks and braces and some open problems.

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