

1086-05-481

Breanne Baker* (bab207@lehigh.edu). *The 1-Fixed-Endpoint Path Partition Problem on Interval Graphs.*

Given a graph G and a vertex t , a 1-fixed-endpoint path partition of G with respect to t is a set of vertex-disjoint paths which cover the vertices of G and in which t is an endpoint of a path. The 1-fixed-endpoint path partition problem is to find the minimum size of such a path partition. In general, this problem is NP-hard; however, there exists a min-max theorem which describes this value when G is an interval graph. (Received September 04, 2012)