

1080-05-293

Garth Isaak* (gisaak@lehigh.edu). *Degrees in Edge Colored Graphs.*

A not necessarily proper edge coloring of a graph yields a ‘degree’ at each vertex recording the number of incident edges for each color. Given a list of k -tuples we can ask if some k edge coloring of some graph from a list of possible host graphs has the given degree list. We will review some older (under different terminology) and some newer results about this sort of problem. (Received January 30, 2012)