

1077-05-232

Michelle A. Lastrina* (lastrina@iastate.edu). *Sum-list-coloring and sc-greedy graphs*. Preliminary report.

Let $G = (V, E)$ be a graph and let f be a function that assigns list sizes to the vertices of G . It is said that G is f -choosable if for every assignment of lists of colors to the vertices of G for which the list sizes agree with f , there exists a proper coloring of G from the lists. The sum choice number is the minimum of the sum of list sizes for f over all choosable functions f for G . The sum choice number of a graph is always at most the sum $|V| + |E|$. When the sum choice number of G is equal to this upper bound, G is said to be sc-greedy. This poster will illustrate some general results with respect to the sum choice number and sc-greedy graphs as well as provide examples of some graphs that are sc-greedy. (Received August 15, 2011)