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Michelle A Lastrina* (lastrinm@dickinson.edu). *Sum-list-coloring graphs*. Preliminary report.

Let $G = (V, E)$ be a graph and f be a function assigning list sizes to the vertices of G . The graph G is f -choosable if every assignment of lists of colors to the vertices of G , where the list sizes agree with f , has a proper list-coloring of G . 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 G is at most $|V| + |E|$. When the sum choice number of G is equal to this upper bound, G is said to be sc-greedy. In this talk, we will discuss ways to determine whether or not a graph is sc-greedy and how to compute the sum choice number of a graph. In particular, graphs on a small number of vertices and some additional classes of graphs will be explored. (Received September 04, 2012)