

**Jozef Skokan***Ramsey-goodness*

Given two graphs  $G$  and  $H$ , the Ramsey number  $R(G, H)$  is the smallest  $N$  such that, however the edges of the complete graph  $K_N$  are colored with red and blue, there exists either a red copy of  $G$  or a blue copy of  $H$ . Burr gave a simple general lower bound on the Ramsey number  $R(G, H)$ , valid for all connected graphs  $G$ : defining  $\sigma(H)$  to be the smallest size of any color class in any coloring of  $H$  with  $\chi(H)$  colors, we have  $R(G, H) \geq (\chi(H) - 1)(|G| - 1) + \sigma(H)$ . For a given graph  $H$ , it is natural to ask which connected graphs  $G$  attain this bound. A class of graphs is called Ramsey-good if, for each fixed  $H$ , Burr's bound is attained for all sufficiently large graphs  $G$  in the class.

In this talk we will give an overview of some known results about Ramsey-goodness, and offer some new results. In particular, we shall explore connections between Ramsey-goodness and the bandwidth.