An introduction to the Erdos–Gyarfas generalized Ramsey problem Emily Heath*, California State Polytechnic University

In this talk, I will discuss a generalization of the Ramsey problem due to Erd'' os and Shelah which asks, given integers p and q, for the minimum number of colors f(n, p, q) needed to color the edges of the complete graph on n vertices so that every complete subgraph on p vertices has at least q distinct colors. I will survey known results for this generalized Ramsey problem and describe strategies for improving upper and lower bounds on f(n, p, q).