

Bounds on the broadcast chromatic number for cubic graphs

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Goddard, Hedetniemi, Harris and Rall introduced the broadcast chromatic number. They defined a broadcast coloring of order k as a function from the vertex set V to the set $\{1, \dots, k\}$ such that equality between function values of u and v implies that the distance between u and v is more than the function value of u . The minimum order of a broadcast coloring is called the broadcast chromatic number of G , and is denoted by $\chi_b(G)$.

For this talk, we are considering bounds on the broadcast chromatic number for cubic graphs.