

Coloring claw-free graphs with $\Delta - 1$ colors

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Abstract

In 1977, Borodin and Kostochka conjectured that every graph with maximum degree $\Delta \geq 9$ with no clique on Δ vertices has chromatic number at most $\Delta - 1$. We prove this conjecture for claw-free graphs, i.e., those with no induced $K_{1,3}$. This is joint work with Landon Rabern, of Arizona State University.

Keywords: graph, graph coloring.

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