

THE ANTI-RAMSEY NUMBER FOR PATHS

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Zoom meeting ID: 830 305 3077 Password: 121323

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Abstract: A subgraph of an edge-colored graph is *rainbow* if all of its edges have different colors. For a given graph H , the anti-Ramsey number $AR(n, H)$ of H is the maximum number of colors in an edge-colored K_n such that K_n does not contain a copy of rainbow H . We determine the exactly anti-Ramsey number for paths. This confirms a conjecture posed by Erdős, Simonovits and Sós in 1970s.