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Minimum degrees of minimal Ramsey graphs and hypergraphs

A (uniform hyper-)graph G is called H -Ramsey if no matter how one colors its edges red/blue, there is a monochromatic copy of H . We say that G is minimal H -Ramsey if G is H -Ramsey, but no proper subgraph of it is. Burr, Erdős and Lovász studied the smallest minimum degree among all minimal K_t -Ramsey graphs and showed that it equals $(t - 1)^2$. I discuss generalizations of their result to more colors and to hypergraphs.

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