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Bootstrapping partition regularity of linear systems

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Suppose that A is a $k \times d$ matrix of integers such that for any r there is some N such that any r -colouring of $\{1, \dots, N\}$ contains a monochromatic solution to A , meaning there is a colour class C and $x \in C^d$ such that $Ax = 0$. Not all matrices A have this property (consider, for example, when all the entries of A are positive), but when they do they are called partition regular. In this talk we consider what bounds can be given on N in terms of r (and A) when A is partition regular.

Summary

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