Wednesday, December 5, 2018 14:24

Morevra, Richter, Robertson

If 2(A)>0, 7B,C=N s.t B+C < A?

Note: if N= UCi, one of Ci has this property!

Let D_n be derayements. What is $\sum_{\pi \in D_n} \mathcal{E}(\pi)$?

Extreme points: the set in R2 is closed (Not in R3!)

Density version of ramsey's theorem??

Recall: if $\mathbb{N}^{(2)} = \bigcup_{i=1}^{(2)} C_i$ here $\Im S \subseteq \mathbb{N}$, $|S| = \infty$ 5.1. $S^{(2)}$ is monochome.

Conjecture: if AC IN x IN \ diagonal is symmetric d'large",
then A > B x B \ liayonal where B is "large"

can S always be chosen to be "large"?

(special case of) Sárközy: If Ais large then A-A = n3

> (flow (n_1b) blue of $a-b=n^3$, red o.w.then S can't be blue by Fernal's last theorem. and it can't be big & red by Sarking.

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No: A (remove rational emis) B-B contains an interval Unification of Szemeredi & Sárközy: Can be replaced by $\int_{P(0)}^{Any} P(n) \in \mathbb{Z}[n]$ if $\tilde{d}(A) > 0$, $\exists n \text{ s.t. } \tilde{d}(A \cap (A - n^2)) > 0$ (in other words, {p(n): neN} is a set of Combinutorial recurrence!). d(An(A-n) n... (A-kn)) > 0 Jake's extension: d (An (A-p(n)) n...n (A-p(kn))) > 0 Cornect (but still not most general): d(An(A-P,(n)),...n(A-P,(n)))>0 P-1 does not contain IP set but it does contain FS(ki) in VN. Marriage him from pftb Cayley formely for # trees thite kakeya problem How to guard a vousenin Milliken-Taylor Theorem (a sort of joint generalization of)
Ramsey & Hundman

If M(A)=1, ADBXB with M(B)>6?