Ex Rushil & Denni's exercises

(R ANKAN)

-> Je pense no: must be uncountably many in certain lovelest.

Theoren: my open set in IR is a union of country by many disjoint intervals.

Where each B; is either A; or A;?

Oithogorality/independence of functions: $\int f \cdot g = \int f \cdot \int g$.

Countrible vector space over Fp.

 $V_{F_0} = \{(a_1, a_2, \dots) : a_i \in F_p, \text{ only finitely many } a_i \text{ are nonzero}\}.$

theorem. For any finite columny $V_{F_p} = \bigcup_{i=1}^{p} C_i$, one C_i whice contains as bitrarily large affine subspaces.

is it true that one Ci contamo an infinite office subspace? (no, unless # is 30,13)

Szemmedi analogne for VIFP: require density: use initial vector spaces as Følversets. (s) Any "large" set in V_{Fp} is ASS-rich.)

G Amy "large" set in V_{Fp} is ASS-rich.

as Følnersets.

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