

Cornell University <u>Library</u> We gratefully acknowledge support from the Simons Foundation and member institutions

Search or A

arXiv.org > math > arXiv:1206.0287

Mathematics > Dynamical Systems

A nilpotent IP polynomial multiple recurrence theorem

Pavel Zorin-Kranich

(Submitted on 1 Jun 2012 (v1), last revised 20 Aug 2012 (this version, v2))

We generalize the IP-polynomial Szemer\'edi theorem due to Bergelson and McCutcheon and the nilpotent Szemer\'edi theorem due to Leibman. Important tools in our proof include a generalization of Leibman's result that polynomial mappings into a nilpotent group form a group and a multiparameter nilpotent Hales-Jewett theorem.

Comments:	28 pages, v2: definition of polynomial and proof of Theorem 2.5 changed, minor corrections
Subjects:	Dynamical Systems (math.DS); Combinatorics (math.CO)
MSC classes:	37A30 (Primary) 05D10, 37B20 (Secondary)
Cite as:	arXiv:1206.0287 [math.DS]
	(or arXiv:1206.0287v2 [math.DS] for this version)

Submission history

From: Pavel Zorin-Kranich [view email] [v1] Fri, 1 Jun 2012 19:35:30 GMT (28kb) [v2] Mon, 20 Aug 2012 10:40:36 GMT (30kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

ticle-id	(<u>Help</u> <u>Advanced search</u>)
	All papers 🖵 Go!
)	Download: PDF PostScript
	Other formats
	Current browse context: math.DS < prev next > new recent 1206
	Change to browse by: math math.CO
	References & Citations NASA ADS
	1 blog link(what is this?)
)	Bookmark(what is this?)