Xiao, Jimeng; Liu, Jiuqiang; Zhang, Shenggui
Families of vector spaces with $r$-wise $L$-intersections. (English) Zbl 1380.05191

Summary: In this paper, we extend the well-known Frankl-Ray-Chaudhuri-Wilson theorem on vector spaces to $r$-wise $L$-intersecting families, in both modular version and non-modular version. We also provide an upper bound on $L$-intersecting families of vector spaces which improves the Frankl-Ray-Chaudhuri-Wilson theorem.

MSC: 05D05 Extremal set theory

Keywords: Erdős-Ko-Rado theorem; Frankl-Ray-Chaudhuri-Wilson theorem; $r$-wise $L$-intersecting families; vector space

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