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On extraction of parallelotopes. (English) [Zbl 1311.52014](#)

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Summary: A parallelotope is a convex polytope which fills the space facet to facet by its translation copies without intersecting by inner points. Consider the parallelotopes P and Q . If there exists a direction \mathbf{v} for which $P \oplus \lambda \mathbf{v} = Q$, where \oplus denotes the Minkowski sum then Q is called the extraction of P .

In this paper, we investigate when the extraction of a parallelotope is a parallelotope, too.

MSC:

[52B11](#) n -dimensional polytopes

Cited in **2** Documents

Keywords:

extraction of parallelotopes; convex polytope