

# CONVEX BODIES IN MINKOWSKI ARRANGEMENT

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Homothets of a centrally symmetric convex body in the  $d$ -dimensional Euclidean space are said to be in Minkowski arrangement if they are pairwise intersecting and none of them contains the center of any other in its interior. Polyanskii [4] recently proved that such a family of convex bodies has at most  $3^{d+1}$  members. This result was improved by Naszódi and Swanepoel [3]: they showed that the upper bound is  $2 \cdot 3^d$ . We prove that the maximum cardinality of a set containing translates of a convex body in Minkowski arrangement is  $3^d$  and that this bound is strict. We introduce some generalisations of the problem based on an idea of Böröczky and Szabó [1].

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