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On a Brunn-Minkowski Theorem for a Geometric Domain Functional Considered by Avhadiev

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Abstract: Suppose two bounded subsets of \mathbb{R}^n are given. Parametrise the Minkowski combination of these sets by t . The Classical Brunn-Minkowski Theorem asserts that the $1/n$ -th power of the volume of the convex combination is a concave function of t . A Brunn-Minkowski-style theorem is established for another geometric domain functional.



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