THE GENERALIZED $L_p$–WINTERNITZ PROBLEM

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Abstract. This article introduced the notion of the $(i, j)$ type $L_p$-affine surface area of convex body in $\mathbb{R}^n$, and discussed its some proposition. In addition, we consider the more general $L_p$-Winterniz monotonicity problem about the $(i,0)$ type $L_p$-affine surface area and $i$th $L_p$-projection body in $\mathbb{R}^n$, and get a positive answer in all dimensions.


Keywords and phrases: Convex body, $i$th $L_p$-curvature function, $i$th $L_p$-curvature image, $(i, j)$ type $L_p$-affine surface area, $L_p$-Winterniz monotonicity problem.

REFERENCES

