A TYPE OF MONOTONICITY ON THE $L_p$ CENTROID BODY AND $L_p$ PROJECTION BODY

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Abstract. Associated with $L_p$ centroid body and $L_p$ projection body, Lutwak, Yang and Zhang recently made a series of studies. In this paper, associated with the $L_p$ mixed volume and dual mixed volumes, we establish several inequalities for the monotonicity of $L_p$ centroid body and $L_p$ projection body.

Key words and phrases: $L_p$ mixed volume, $L_p$ dual mixed volume, $L_p$ centroid body, $L_p$ projection body, monotonicity, inequality.

REFERENCES