

## REFINED CONVEXITY AND SPECIAL CASES OF THE BLASCHKE-SANTALO INEQUALITY

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*Abstract.* We derive the  $l_p$  version of the classical Blaschke-Santalo inequality for polar volumes as a consequence of more subtle convexity estimates for the volume of the  $p$ -ball in Euclidean space. We also give analogs for the  $(p, q)$ -substitution norm.

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