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Title: Some formulas of Santaló type in Finsler geometry and its applications

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In this paper, we establish two Santaló type formulas for general Finsler manifolds. As applications, we derive a universal lower bound for the first eigenvalue of the nonlinear Laplacian, two Croke type isoperimetric inequalities, and a Yamaguchi type finiteness theorem in Finsler geometry.

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