Zhan, Mengqing; Zhou, Linfeng
The isoperimetric problem in the 2-dimensional Finsler space forms with \( k = 0 \). II. (English)

The author of the paper investigate the isoperimetric problem i.e. how maximize the area of a simple closed curve under the constraint that the length of the curve is to be fixed. in the 2-dimensional Finsler space form with \( k = 0 \) by using the Holmes-Thompson area. Further they prove the circle centered at the origin achieves the local maximum area of the isoperimetric problem.

Reviewer: V. K. Chaubey (Gorakhpur)

MSC:
53B40 Local differential geometry of Finsler spaces and generalizations (areal metrics)
53C60 Global differential geometry of Finsler spaces and generalizations (areal metrics)
58B20 Riemannian, Finsler and other geometric structures on infinite-dimensional manifolds

Keywords:
isoperimetric problem; Finsler space forms

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References:

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