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Summary: In this paper, we consider conformal Kropina transformation of $m$-th root metric and for this find Fundamental metric tensors and Spray coefficients. Moreover, condition for locally projectively flat on conformal Kropina transformation of $m$-th root metric has been found.

MSC:
53B40 Local differential geometry of Finsler spaces and generalizations (areal metrics)
53C60 Global differential geometry of Finsler spaces and generalizations (areal metrics)

Keywords:
Finsler space; conformal transformation; Kropina metrics; $m$-th root metrics; locally projectively flat

Full Text: DOI

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