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**Title:** On Berwald  $m$ -th root Finsler metrics

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In this paper, we study  $m$ -th root Finsler metrics. For these metrics, we find the necessary and sufficient condition to be Berwaldian. By this result, we construct some special Berwaldian  $m$ -th root metrics. Then we prove that every  $m$ -th root Douglas metrics reduces to a Berwald metric.

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