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Finsler-type structures and det-based classification of Mueller-type submanifolds. (English)
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Summary: By means of the spinorial representation of matrices, two constructed determinant-induced metrics of conformal-Euclidean Riemannian and of Finsler types, respectively, are shown to produce a \((h, v)\)-structure, whose properties are investigated from the point of view of naturally developed Einstein and Maxwell-like equations.

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 structure; metric \((h, v)\); structure; Mueller matrices; Stokes formalism; generalized Einstein equations; generalized Maxwell equations; Finsler structure; metric \((h, v)\); structure; \(m\)-th root metrics; KCC invariants

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