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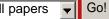
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Curvatures of weighted metrics on tangent sphere bundles

Rui Albuquerque

(Submitted on 26 Jul 2011)

We determine the curvature equations of natural metrics on tangent bundles and radius r tangent sphere bundles S_rM of a Riemannian manifold M. A family of positive scalar curvature metrics on S rM is found, for any M with bounded sectional curvature and any chosen constant r.

Subjects: Differential Geometry (math.DG)

MSC classes: 53A30, 53C17, 53C21

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