



Curvatures of weighted metrics on tangent sphere bundles

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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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