

1137-53-196

McFeely Jackson Goodman* (mcfelyg@math.upenn.edu), Department of Mathematics,
David Rittenhouse Lab., 209 South 33rd Street, Philadelphia, PA 19104. *On the Moduli Spaces of
Metrics with Nonnegative Sectional Curvature.*

The Kreck-Stolz s invariant is used to distinguish connected components of the moduli space of positive scalar curvature metrics. We use a formula of Kreck and Stolz to calculate the s invariant for metrics on S^n bundles with nonnegative sectional curvature. We then apply it to show that the moduli spaces of metrics with nonnegative sectional curvature on certain 7-manifolds have infinitely many path components. These include the first non-homogeneous examples of this type and certain positively curved Eschenburg and Aloff-Wallach spaces. (Received February 03, 2018)