

## *Spin*<sup>c</sup> Dirac operators and the Kreck-Stolz $s$ invariant.

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We use the *Spin*<sup>c</sup> Dirac operator to generalize a formula of Kreck and Stolz for the  $s$  invariant of  $S^1$  invariant metrics with positive scalar 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 certain positively curved Eschenburg and Aloff-Wallach spaces. Furthermore, we use a *Spin*<sup>c</sup> version of the  $s$  invariant to discuss moduli spaces of metrics of positive scalar and twisted scalar curvature on *Spin*<sup>c</sup> manifolds.

### Summary

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