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Stability of Einstein metrics through new spinorial Bochner identities

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Abstract: Einstein metrics with non-positive scalar curvature are conjectured to be linearly stable. On spin manifolds, the existence of parallel or Killing spinors provides spinorial criteria for stability. In this talk I explain how this Bochner-type mechanism extends to non-spin manifolds using twisted spinors. In particular, we show that Einstein manifolds carrying parallel twisted pure spinors are linearly semistable. This yields stability results for a broad class of spaces, including quaternionic Kähler manifolds.

