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Anusha M Krishnan* (akrish03@syr.edu). *Prescribing Ricci curvature on a product of spheres.*

Given a symmetric 2-tensor T on a manifold M , can T be realized as the Ricci curvature of some Riemannian metric on M ? We will discuss some classical results in the field, as well as more recent work under symmetry assumptions. This talk is based on joint work with Timothy Buttsworth. (Received January 16, 2021)