

Constant σ_2 -curvature metrics with non isolated singularities

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Abstract

We study construction of a complete non-compact Riemannian metrics with positive constant σ_2 -curvature, on the sphere \mathbb{S}^n with a prescribed singular set Λ given by a disjoint union of closed submanifolds whose dimension is positive and strictly less than $\frac{n-\sqrt{n-2}}{2}$. A necessary condition is that $2 \leq 2k < n$.

Joint work with M.d.M. González.

References

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