

BK-QSMS Toric Geometry Seminar 2023 MATH

Sphere Theorem

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Abstract: The sphere theorem is a classical theorem in Riemannian geometry which was proved in 60s, which tells us that a Riemannian manifold whose sectional curvature is in the range $(1/4, 1]$ is a topological sphere. The proof uses quite elementary Riemannian geometry, which we symplectic geometers forgot long time ago. In this talk, we will review the basic notions of Riemannian geometry like geodesic, Jacobi field, cut locus, etc. and introduce the sketch of the proof of the sphere theorem. We will also introduce the theorems named ‘comparison theorem’, which is interesting itself and plays an important role in the proof.



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