

Lecture 11 Geodesics University Of Warwick

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102 Lecture 11. Geodesics and completeness To prove the second part of the proposition, let $\gamma:[0,r] \times (-\epsilon,\epsilon) \rightarrow M$ be given by $\gamma(r,s)=\exp_x(rw(s))$, where $w(s) \in S_{n-1}(0) \subset TM$. Then in T_xM , $w(s)$ is tangent to a sphere about the origin, and we need to show that the image ∂_s of this vector is orthogonal to the radial vector ∂_r : $\partial_r \langle \partial_r, \partial_s \rangle = g(\nabla_{\partial_r} \partial_s)$

Lecture 11. Geodesics and completeness
Lectures are given by Dr Somnath Basu, IISER Kolkata In this video, the following has been discussed: 1. Geodesics on the surface of revolution.

Lecture 11 (Part 1): Riemannian Geometry (Geodesics on the Surface of Revolution)
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Continuation of the calculation for the geodesics on a surface of revolution.

Lecture 11 (Part 2): Riemannian Geometry (Geodesics on Surface of Revolution Cont.)
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