The Variational Theory Of Geodesics

In differential geometry, a geodesic (/ˌdʒiːəˈdɛsɪk, ˌdʒiːo-, -ˈdiː-, -zɪk/) is a curve representing in some sense the shortest path between two points in a surface, or more generally in a Riemannian manifold. It is a generalization of the notion of a "straight line" to a more general setting. The term "geodesic" comes from geodesy, the science of measuring the ...
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We study geometric properties of GL-spaces. We demonstrate that every finite-dimensional GL-space is polyhedral; that in dimension 2 there are only two, up to isometry, GL-spaces, namely the space whose unit sphere is a square (like $\ell_\infty^2$ or $\ell_1^2$) and the space whose unit sphere is an equilateral hexagon.

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