Two Dimensional Manifolds Of Bounded Curvature

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A metric space which is a two-dimensional manifold with a metric, for which analogues of the concepts of two-dimensional Riemannian geometry such as the length and the total curvature of a curve, the area and the total Gaussian curvature of a set have been defined. Special cases of two-dimensional manifolds of bounded curvature are two-dimensional Riemannian spaces and polyhedral surfaces in three-dimensional Euclidean space.

Two-dimensional manifold of bounded curvature ...

A two-dimensional manifold with a metric is a two-dimensional manifold of bounded curvature if the following condition is met: There exists a sequence of Riemannian metrics , defined on , such that for any compact set one has uniformly (i.e. the functions uniformly converge to the function on the set) and the sequence , is bounded; here, is the total absolute curvature of the Riemannian metric . Two-dimensional manifolds of bounded curvature can be defined axiomatically.

Two-dimensional manifold of bounded curvature ...

The theory of two-dimensional manifolds of bounded curvature is a generalization of two-dimensional Riemannian geometry. Formally a two-dimensional manifold of bounded curvature is a two-dimensional manifold in which there are defined the concepts of the length of a curve, the angle between curves starting from one point, the area of a set, and also the integral curvature of a curve and the integral curvature of a set.

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Two-dimensional manifolds of bounded curvature ...

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Two-dimensional manifolds of bounded curvature ...

Abstract. We study the class of closed 2-dimensional Riemannian manifolds with uniformly bounded diameter and total absolute curvature. Our rst the-orem states that this class of manifolds is precompact with respect to the Gromov-Hausdor distance. Our goal in this paper is to completely charac-terize the topological structure of all the limit spaces of the class of manifolds, which are, in general, not topological manifolds and even may not be locally

THE LIMIT SPACES OF TWO-DIMENSIONAL MANIFOLDS WITH ...

A wider class of two-dimensional manifolds is constituted by the compact orientable two-dimensional manifolds, or surfaces with boundary, which can be obtained from any closed surface by removing the interior points of a finite number of non-intersecting discs. Their boundaries form the boundary of the two-dimensional manifold thus generated.

Two-dimensional manifold - Encyclopedia of Mathematics

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Let's define two charts for our d-dimensional manifold M: $$\begin{align*} \varphi(p) = (x^1(p), \ldots, x^d(p)) \\ \vartheta(p) = (y^1(p), \ldots, y^d(p)) \\ \tag{11} \end{align*}$$ where $x^i(p)$ and $y^i(p)$ are coordinate functions to find the specific index of the local coordinates from a point on our manifold $p \in M$.

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ABSTRACT. We study the class of closed 2-dimensional Riemannian manifolds with uniformly bounded diameter and total absolute curvature. Our first theorem states that this class of manifolds is precompact with respect to the Gromov-Hausdorff distance.

The limit spaces of two-dimensional manifolds with ...

Two-dimensional manifolds are also called surfaces. Examples include the plane, the sphere, and the torus, which can all be embedded (formed without self-intersections) in three dimensional real space, but also the Klein bottle and real projective plane, which will always self-intersect when immersed in three-dimensional real space.

Manifold - Wikipedia

Comments. A fact related to the last paragraph above is Wallace's theorem (cf.): Every non-degenerate compact connected space contains at least two points that do not separate it. References

One-dimensional manifold - Encyclopedia of Mathematics

Two-dimensional manifolds of bounded curvature by A. D. Aleksandrov, 1967, American Mathematical Society edition, in English