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## Two Dimensional Manifolds Of Bounded Curvature

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~~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  $g_n$ , defined on  $M$ , such that for any compact set  $K$  one has uniformly (i.e. the functions uniformly converge to the function on the set  $K$ ) and the sequence  $\int_K |K|$ , is bounded; here,  $|K|$  is the total absolute curvature of the Riemannian metric  $g_n$ . Two-dimensional manifolds of bounded curvature can be defined axiomatically.

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~~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 ...~~

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  $g_n$ , defined on  $M$ , such that for any compact set  $K$  one has uniformly (i.e. the functions

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uniformly converge to the function on the

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Buy Two-dimensional manifolds of bounded curvature, (Proceedings of the Steklov Institute of Mathematics) by Aleksandrov, A. D (ISBN: ) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

~~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 first theorem states that this class of manifolds is precompact



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with respect to the Gromov-Hausdorff distance. Our goal in this paper is to completely characterize 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

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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

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manifold  $(M)$ :  $\begin{aligned} \varphi(p) &= (x^1(p), \\ &\dots, x^d(p)) \\ \theta(p) &= (y^1(p), \dots, \\ &y^d(p)) \end{aligned}$  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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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

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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.

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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~~

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Mathematics

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

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