

THE LIMIT SPACES OF TWO-DIMENSIONAL MANIFOLDS WITH UNIFORMLY BOUNDED INTEGRAL CURVATURE

TAKASHI SHIOYA

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. 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 2-connected. We also study the limit of 2-manifolds with L^p -curvature bound for $p \geq 1$.

1. INTRODUCTION

Let $\mathcal{M}(C, D)$ denote the set of isometry classes of closed 2-dimensional Riemannian manifolds M with diameter $\leq D$ and total absolute curvature $c_{abs}(M) := \int_M |K_M| \leq C$ for two constants $C, D > 0$, where K_M denotes the curvature function on M . Our first theorem is the following:

Theorem 1.1 (Precompactness Theorem). *The class $\mathcal{M}(C, D)$ is precompact with respect to the Gromov-Hausdorff distance.*

This theorem means that any sequence of manifolds in $\mathcal{M}(C, D)$ has a subsequence which converges to some compact metric space. The main purpose of this paper is to study the topological structure of the limit spaces. Before we describe our main results, let us see an example.

Example 1.1. Define a function $f: [0, 2/3\pi] \rightarrow \mathbf{R}$ by $f(0) := 0$ and $f(x) := x^4(1 + \sin(1/x))$ for $x \in (0, 2/3\pi]$ as shown in Figure 1.

Then, we see that

$$S := \{ (x, y, z) \in \mathbf{R}^3 \mid y^2 + z^2 = f(x)^2, 0 \leq x \leq 2/3\pi \}$$

is a limit of $\mathcal{M}(C, D)$ for some $C, D > 0$. In fact, S is approximated by the smooth surface of revolution

$$S_\epsilon := \{ (x, y, z) \in \mathbf{R}^3 \mid y^2 + z^2 = (f(x) + \epsilon)^2, \epsilon \leq x \leq 2/3\pi - \epsilon \}$$

for small $\epsilon > 0$, which is homeomorphic to a closed annulus. Attaching two suitable small caps to the two circle boundary components of S_ϵ , we have a C^∞ -Riemannian manifold M_ϵ homeomorphic to a sphere such that $\mathcal{M}(C, D) \ni M_\epsilon \rightarrow S$ as $\epsilon \rightarrow 0$ for some

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Two Dimensional Manifolds Of Bounded Curvature

Jin-Ying Zhang



Two Dimensional Manifolds Of Bounded Curvature:

Two-dimensional Manifolds of Bounded Curvature Aleksandr Danilovich Aleksandrov, Viktor A. Zalgaller, 1967
Proceedings and papers about in which the foundation of the intrinsic geometry of nonregular surfaces is developed

Two-dimensional Manifolds of Bounded Curvature Aleksandr Danilovich Aleksandrov, 1967 *Two-dimensional Manifolds of Bounded Curvature* German Stepanovich Zhdanov, 1967 Encyclopaedia of Mathematics Michiel Hazewinkel, 1993-01-31 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics. It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977-1985. The annotated translation consists of ten volumes including a special index volume. There are three kinds of articles in this ENCYCLOPAEDIA. First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used. The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible. On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science, engineers and teachers of mathematics. These articles treat their material at a fairly general level and aim to give an idea of the kind of problems, techniques and concepts involved in the area in question. They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions. The second kind of article of medium length contains more detailed concrete problems, results and techniques. Geometry IV Yu.G. Reshetnyak, 2013-03-14 The book contains a survey of research on non-regular Riemannian geometry carried out mainly by Soviet authors. The beginning of this direction occurred in the works of A. D. Aleksandrov on the intrinsic geometry of convex surfaces. For an arbitrary surface F as is known all those concepts that can be defined and facts that can be established by measuring the lengths of curves on the surface relate to intrinsic geometry. In the case considered in differential geometry is defined by specifying its first geometry the intrinsic geometry of a surface fundamental form. If the surface F is non-regular then instead of this form it is convenient to use the metric PF defined as follows. For arbitrary points $X, Y \in F$ $PF(X, Y)$ is the greatest lower bound of the lengths of curves on the surface F joining the points X and Y . Specification of the metric PF uniquely determines the lengths of curves on the surface and hence its intrinsic geometry. According to what we have said the main object of research then appears as a metric space such that any two points of it can be joined by a curve of finite length and the distance between them is equal to the greatest lower bound of the lengths of such curves. Spaces satisfying this condition are called spaces with intrinsic metric. Next we introduce metric spaces with intrinsic metric satisfying in one form or another the condition that the curvature is bounded. **2-dimensional Manifolds of Bounded Curvature** A. D. Aleksandrov, V. A. Zalgaller, 1967

Two-dimensional manifolds of bounded curvature Drumernye Mnogoobrajia organicej krivizny, engl Aleksandr D. Aleksandrov, Viktor A. Zalgaller, 1967 Reshetnyak's Theory of Subharmonic Metrics François Fillastre, Dmitriy Slutskiy, 2023-09-15

Despite the fundamental role played by Reshetnyak's work in the theory of surfaces of bounded integral curvature the proofs of his results were only available in his original articles written in Russian and often hard to find. This situation used to be a serious problem for experts in the field. This book provides English translations of the full set of Reshetnyak's articles on the subject. Together with the companion articles this book provides an accessible and comprehensive reference for the subject. In turn, this book should concern any researcher confirmed or not interested in or active in the field of bounded integral curvature surfaces or more generally interested in surface geometry and geometric analysis. Due to the analytic nature of Reshetnyak's approach it appears that his articles are very accessible for a modern audience comparing to the works using a more synthetic approach. These articles of Reshetnyak concern more precisely the work carried by the author following the completion of his PhD thesis under the supervision of A. D. Alexandrov. Over the period from the 1940s to the 1960s the Leningrad School of Geometry developed a theory of the metric geometry of surfaces similar to the classical theory of Riemannian surfaces but with lower regularity allowing greater flexibility. Let us mention A. D. Alexandrov, Y. D. Burago and V. A. Zalgaller. The types of surfaces studied by this school are now known as surfaces of bounded curvature. Particular cases are that of surfaces with curvature bounded from above or below, the study of which gained special attention after the works of M. Gromov and G. Perelman. Nowadays these concepts have been generalized to higher dimensions to graphs and so on, and the study of metrics of weak regularity remains an active and challenging field. Reshetnyak developed an alternative and analytic approach to surfaces of bounded integral curvature. The underlying idea is based on the theorem of Gauss which states that every Riemannian surface is locally conformal to Euclidean space. Reshetnyak thus studied generalized metrics which are locally conformal to the Euclidean metric with conformal factor given by the logarithm of the difference between two subharmonic functions on the plane. Reshetnyak's condition appears to provide the correct regularity required to generalize classical concepts such as measure of curvature, integral geodesic curvature for curves and so on, and in turn to recover surfaces of bounded curvature. Chapter No. 7, Chapter No. 8, Chapter No. 12 and Chapter No. 13 are available open access under Creative Commons Attribution NonCommercial 4.0 International License via link.springer.com.

Geometry III Yu. D. Burago, V. A. Zalgaller, 2013-03-14. The original version of this article was written more than five years ago with S. Z. Shefel, a profound and original mathematician who died in 1984. Since then the geometry of surfaces has continued to be enriched with ideas and results. This has required changes and additions but has not influenced the character of the article, the design of which originated with Shefel. Without knowing to what extent Shefel would have approved the changes, I should nevertheless like to dedicate this article to his memory. Yu. D. Burago. We are trying to state the qualitative questions of the theory of surfaces in Euclidean spaces in the form in which

they appear to the authors at present This description does not entirely correspond to the historical development of the subject The theory of surfaces was developed in the first place mainly as the 3 theory of surfaces in three dimensional Euclidean space E^3 however it makes sense to begin by considering surfaces F in Euclidean spaces of any dimension $n \geq 3$ This approach enables us in particular to put in a new light some 3 unsolved problems of this developed and in the case of surfaces in E^3 fairly complete theory and in many cases to refer to the connections with the present stage of development of the theory of multidimensional submanifolds The leading question of the article is the problem of the connection between classes of metrics and classes of surfaces in E^n

Extrinsic Geometry of Convex Surfaces Alekseĭ Vasil'evich Pogorelov, 1973
Geometric Inequalities Yurii D. Burago, Viktor A. Zalgaller, 2013-03-14 A 1988 classic covering Two dimensional Surfaces Domains on the Plane and on Surfaces Brunn Minkowski Inequality and Classical Isoperimetric Inequality Isoperimetric Inequalities for Various Definitions of Area and Inequalities Involving Mean Curvature *Siberian Mathematical Journal*, 1977
Convex Analysis and Nonlinear Geometric Elliptic Equations Ilya J.

Bakelman, 2012-12-06 Investigations in modern nonlinear analysis rely on ideas methods and problems from various fields of mathematics mechanics physics and other applied sciences In the second half of the twentieth century many prominent exemplary problems in nonlinear analysis were subject to intensive study and examination The united ideas and methods of differential geometry topology differential equations and functional analysis as well as other areas of research in mathematics were successfully applied towards the complete solution of complex problems in nonlinear analysis It is not possible to encompass in the scope of one book all concepts ideas methods and results related to nonlinear analysis Therefore we shall restrict ourselves in this monograph to nonlinear elliptic boundary value problems as well as global geometric problems In order that we may examine these problems we are provided with a fundamental vehicle The theory of convex bodies and hypersurfaces In this book we systematically present a series of centrally significant results obtained in the second half of the twentieth century up to the present time Particular attention is given to profound interconnections between various divisions in nonlinear analysis The theory of convex functions and bodies plays a crucial role because the ellipticity of differential equations is closely connected with the local and global convexity properties of their solutions

Therefore it is necessary to have a sufficiently large amount of material devoted to the theory of convex bodies and functions and their connections with partial differential equations

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Intrinsic Geometry of Surfaces Aleksandr Danilovich Aleksandrov, Viktor A. Zalgaller, 1967 **Russian Mathematical Surveys** , 1992 **St. Petersburg Mathematical Journal** , 2006

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