Geometric Manifolds and the Shape of Space

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MATH 331: Geometry

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Outline

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Definitions

- A Geometric 2-Manifold is a connected surface that is locally isometric to either the Euclidean plane, hyperbolic plane, or sphere.
- Cylinders and Cones (excluding cone point) are examples of 2-manifolds

Gluings

- Gluings are when two edges or sides of a surface are "connected" and share the same set of points.

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Geometric 3-Manifolds

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Cosmic Microwave Radiation

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The Shape of Space

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