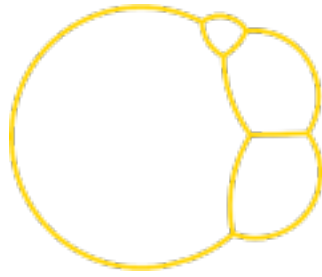


## Isoperimetric Problems



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### **Lecture 1. Introduction to isoperimetry in Riemannian manifolds and the emergence of nonsmooth structures**

*Tuesday, 21 June 2022 09:30 (50 minutes)*

In this introductory talk, I will recall the main issues in dealing with the isoperimetric problem on Riemannian manifolds.

I will then focus on manifolds with lower bounds on the Ricci curvature, and discuss some fundamental tools in this setting.

Their rigorous derivation and their applications will naturally call for the analysis on nonsmooth RCD structures, and will be the object of the subsequent lectures.

**Presenter:** FOGAGNOLO, Mattia (Centro De Giorgi Pisa)