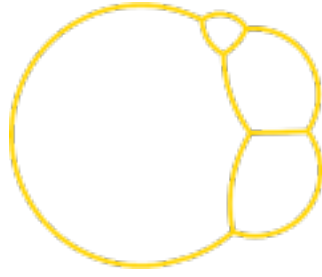


Isoperimetric Problems



Contribution ID: 94

Type: **not specified**

Lecture 3. Topological properties of isoperimetric sets on RCD spaces

Wednesday, 22 June 2022 09:30 (50 minutes)

In the first part of the lecture, I provide an overview on the differential calculus in the setting of RCD spaces, with a particular focus on the theory of sets of finite perimeter. In the second part of the lecture, I show how to apply this differential calculus in order to obtain a Deformation Lemma, which in turn can be used (under suitable non-collapsing assumptions) to prove that the essential interior of an isoperimetric set is an open bounded set having Ahlfors regular topological boundary.

Presenter: PASQUALETTO, Enrico (SNS Pisa)