## **Topics in Geometric Analysis**



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## Strictly mean convex exhaustions and isoperimetric inequalities

Friday, 27 June 2025 12:00 (1 hour)

I will illustrate a general principle, first devised by Kleiner in a special case, allowing to pass from mean curvature inequalities to isoperimetric inequalities in general noncompact Riemannian manifolds that can be exhausted by strictly mean convex domains. I will then describe a trichotomy theorem envisioned by Gromov allowing one to decide whether a manifold enjoys such property or not. The talk is based mainly on works in collaboration with Borghini, Mazzieri and Santilli.

Presenter: Dr FOGAGNOLO, Mattia (Università di Padova)