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Isoperimetric type problems in Riemannian manifolds

Given a Riemannian manifold, I will discuss the existence of critical points of the area functional under some (small) volume constraint (i.e. constant mean curvature surfaces with large mean curvature). I will also discuss the existence of critical domains for the first eigenvalue of the Laplacian (with Dirichlet boundary condition) under (small) volume constraint.