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Isoperimetric inequalities for mean curvature integrals

The classical isoperimetric problem asserts that the ball has the maximum volume among domains with the given surface area in the n-dimensional Euclidean space. The isoperimetric problem is equivalent to the isoperimetri inequality that contains the volume and the surface area of the domain. We try to study the isoperimetric inequalities for mean curvature integrals with the smooth boundary assumption for the domain in the n-dimensional Euclidean space.