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Liangjun Weng: A constrained mean curvature type flow and isoperimetric type inequalities

mardi 20 juin 2023 14:20 (30 minutes)

In this talk, we will discuss the isoperimetric inequality and its high-order version – Alexandrov-Fenchel inequality, which dates back to Queen Dido in the ancient Carthage era. We introduce the quermassintegrals for compact hypersurfaces with capillary boundary from the variational viewpoint. Then by using a constrained mean curvature type flow, we can obtain some new isoperimetric type inequalities for compact hypersurfaces with capillary boundary.