
DEPING YE, Memorial University of Newfoundland

Affine isoperimetric inequalities for geominimal surface areas

The classical geominimal surface area and its L_p extension (for $p > 1$) play fundamental roles in convex geometry and related areas.

In this talk, I will present recent progress on various extensions of geominimal surface area, such as, L_p geominimal surface area for all $p < 1$ (but $p \neq -n$) and the Orlicz geominimal surface areas. I will also talk about the affine isoperimetric inequalities related to these newly introduced geominimal surface areas.