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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.