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Extremal general affine surface areas

Recently, Giladi, Huang, Schütt and Werner (2020) introduced and studied the extremal L_p affine surface areas. We extend their definitions and some of their results from the setting of p -affine surface areas to the setting of general L_φ and L_ψ affine surface areas, where φ and ψ are concave and convex functions which satisfy some prescribed conditions. We also prove Blaschke-Santaló type inequalities for these new extremal affine surface areas.