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Sharpened Minkowski Inequality in Cartan-Hadamard Spaces

Minkowski inequality describes the relationship between total mean curvature of a surface and its area. Extension of Minkowski inequality to hyperbolic space and finding the sharp inequality have been a long standing problem. We will discuss a recent paper by M. Ghomi and J. Spruck and sharper inequality we get based on their proof, in which we generalized Minkowski inequality to general spaces with non-positive curvature via harmonic mean curvature flow.