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Nages Shanmugalingam* (nages@math.uc.edu), University of Cincinnati, Dept. of
Mathematical Sciences, P.O. Box 210025, Cincinnati, OH 45221. *The ∞ -Poincaré inequality on
metric measure spaces.*

We study a geometric characterization of the ∞ -Poincaré inequality and show that a path-connected complete doubling
metric measure space supports the ∞ -Poincaré inequality if and only if it is thick quasi-convex. (Received January 18,
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