1020-31-258 **Riikka Korte*** (`rkorte@math.hut.fi`), Institute of Mathematics, P.O. Box 1100, 02015 Espoo, Finland. *Poincaré inequality and quasiconvexity of annuli.*

We consider the following result: If a doubling metric measure space supports a weak $(1, p)$-Poincaré inequality with p sufficiently small, then annuli are almost quasiconvex. We also discuss some other geometric implications of the Poincaré inequality. (Received August 29, 2006)