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Rebekah Jones*, jones3rh@mail.uc.edu. *Modulus of sets of finite perimeter and quasiconformal maps between metric spaces of globally Q -bounded geometry.*

In Euclidean space, it is well-known that quasiconformal maps quasi-preserve the n -modulus of curves. In 1973, Kelly also showed that the $n/(n - 1)$ -modulus of surfaces is quasi-preserved. We generalize this result to the setting of Ahlfors Q -regular metric spaces supporting a 1-Poincaré inequality. In fact, we consider a larger class of surfaces so our results are new even in Euclidean space. We will also discuss the converse to this result. This talk is based on joint work with Panu Lahti and Nageswari Shanmugalingam. (Received January 28, 2019)