

# Quasiconformal mappings between Ahlfors $Q$ -regular spaces supporting a 1-Poincaré inequality, and sets of finite perimeter

Nageswari Shanmugalingam  
University of Cincinnati

A paper of J. C. Kelly, published in 1973 in Transactions of the AMS, states that quasiconformal mappings between two Euclidean domains quasi-preserve families of surfaces that are boundaries of a certain class of sets of finite perimeter. In this talk we will describe a more general quasi-preservation result for “essential” boundaries of sets of finite perimeter by quasiconformal mappings between two complete Ahlfors  $Q$ -regular spaces supporting a 1-Poincaré inequality. This talk is based on the joint work with Panu Lahti and Rebekah Jones.

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