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John Roe introduced coarse cohomology and showed that a coarse cohomology class, which is in the image of the transgression map from some boundary at infinity of the space, pairs with the K-theory of the Roe algebra. Further, he showed that for hyperbolic spaces every coarse cohomology class is in the image of the transgression map from the Gromov boundary.

We generalize these results in the following way: firstly, we show that one can construct transgression maps for any coarse (co-)homology theory, and secondly, we show that these transgression maps are isomorphisms for any space admitting a suitable combing. The latter includes all Gromov hyperbolic and CAT(0) spaces as well as all systolic complexes. (Received January 05, 2019)