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Joseph Rosenblatt* (rosnbltt@illinois.edu), Department of Mathematics, 273 Altgeld Hall, 1409 W. Green St., Urbana, IL 61801. *Coboundaries and ergodic sums*. Preliminary report.

The behavior of the norms of ergodic sums can be used to characterize coboundaries. But the behavior of the norms of ergodic sums can be fairly chaotic. Moreover, for a given function, which classes of transformations have that function as a coboundary is a complex issue. These types of things will be considered in some detail for general ergodic transformations of a probability space. (Received August 19, 2013)