1047-54-420 Lucas Sabalka\* (sabalka@math.binghamton.edu), Department of Mathematical Sciences, Binghamton University, SUNY, Binghamton, NY 13902-6000, and Jerry Kaminker (kaminker@math.ucdavis.edu), Department of Mathematics, University of California, Davis, Davis, CA 95616. *Generalized expanders.* Preliminary report.

Tessera and Ostrovskii have independently introduced a generalized notion of expander in terms of probability measures on metric spaces. In joint work with Jerry Kaminker, we analyze certain classes of these generalized expanders. In this context we study, among other results, the obstruction to being able to uniformly embed a metric space into a Hadamard manifold. (Received February 02, 2009)