

1146-28-500

Robert Niedzialomski* (rniedzia@utm.edu), 424 Humanities Building, 209 Hurt Street,
University of Tennessee at Martin, Martin, TN 38238. *Approximation and 2-Wasserstein distance
for self-similar measures on the unit interval*. Preliminary report.

We study the 2-Wasserstein distance between self-similar measures associated to two non-overlapping linear contractions of the unit interval. We give an explicit formula for the distance between iterations of certain discrete approximations of such measures. As a result we obtain the 2-Wasserstein distance between self-similar measures. (Received January 29, 2019)