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Kevin P Knudson* (knudson@math.msstate.edu), Department of Mathematics & Statistics, Mississippi State University, Mississippi State, MS 39762. *Discrete Morse theory and persistent homology*. Preliminary report.

We discuss the relationship between the persistence pairing of Edelsbrunner–Letscher–Zomorodian and the existence of discrete Morse functions on simplicial complexes. (Received February 02, 2008)