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Ivan Dungan* (ivan.dungan@fmarion.edu). *Capturing Persistent Homotopic Information*. Preliminary report.

With the popularity of persistent homology and its applications, there has been growing interest in a persistent homotopy theory. Of course, there are the immediate computational difficulties to make it an immediate success like the prior. We will focus on the differences and identify how to capture some homotopic information that may advance current applications of persistent homology. (Received September 25, 2018)