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Jessica Christine De Silva* (jdesilva1@csustan.edu). *Quantitative Analyses of Haar vs. Periodic Haar Wavelets*. Preliminary report.

In his paper *A Finite-Dimensional Approach to Wavelet Systems on the Circle*, Brody Johnson has developed the notion of finite-dimensional multiresolution analysis (MRA) wavelet systems on the circle S^1 . Johnson formulates an example of a wavelet with strong similarities to the traditional Haar wavelet. We compare and contrast the two related wavelets by developing quantitative analyses of a periodic sound file that has undergone wavelet transforms via the Haar wavelet and Johnson's Haar-like example. (Received September 25, 2012)