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Eric S Weber* (esw@uwyo.edu), Department of Mathematics, University of Wyoming, Laramie, WY 82071-3036. *Superwavelets and Generalized Multiresolution Analysis*. Preliminary report.

We present some recent results on the relationship between superwavelets and Generalized Multiresolution Analysis. Much of the theory follows the wavelet case, but there are a few surprises. We also describe applications to the analysis of wavelet frames. (Received September 18, 2002)