

1077-42-1727

David Ferrone*, david.ferrone@uconn.edu. *Finite Biorthogonal Transforms and Multiresolution Analyses on Intervals*. Preliminary report.

A class of biorthogonal transformations for finite strings of data are described. These transformations are modifications of dual multiresolution analyses over the real line, and can be used to construct dual multiresolution analyses over an interval. Regularity and approximation properties of the resulting MRA's are explored. (Received September 20, 2011)