

"Dual Dilation Two-Interval Wavelet Sets"

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I will be presenting some results regarding dual-dilation two-interval wavelet sets on the real line. We will review known results involving dilation by two on the left and on the right side of zero. We will also fix one dilation factor while we allow the other one to vary, as well as allowing both to vary. These results are based on the Research Experience for Undergraduates on Matrix Analysis and Wavelet Theory at Texas A&M University.