

1098-42-66

Deguang Han*, Department of Mathematics, University of Central Florida, Orlando, FL 32816.

Matrix Fourier Multipliers for Parseval Multi-wavelet Frames.

Matrix Fourier multipliers are matrices with L^∞ -function entries that map Parseval multi-wavelet frames to Parseval multi-wavelet frames. Like Fourier wavelet multiplier, matrix Fourier multipliers can be used to derive new multi-wavelet frames and can help us better understand the basic theory of multi-wavelet frames. In this talk I will discuss a characterization of such matrix Fourier multipliers. This is a joint work with Z. Li. (Received January 08, 2014)