

Meeting: 1003, Atlanta, Georgia, SS 26A, AMS-SIAM Special Session on Dynamic Equations on Time Scales; Integer Sequences and Rational Maps, I

1003-42-1520 **John M Davis*** (John_M_Davis@baylor.edu), Department of Mathematics, Baylor University, Waco, TX 76798. *Fourier Analysis on Time Scales Closed Under Dilation*. Preliminary report.

We present an inversion formula for the Fourier transform on a time scale. We introduce the notion of time scales closed under dilation and show how the inversion of the product of two Fourier transforms is determined via an appropriate time scale convolution. (Received October 05, 2004)