

**Mathematics Graduate Seminar**

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Title: Wavelets

Abstract: Wavelets represent a relatively new set of techniques in harmonic analysis. They can be used as an alternative to Fourier series and the Fourier transform as a way to represent functions. Wavelets have some properties which make them a good alternative to Fourier analysis. They have a number of applications, such as image processing and signal analysis. In this talk I will talk about building wavelet functions and bases, with some examples and applications.