

1058-46-290

Jonas D'Andrea* (jdandrea@westminstercollege.edu). *A Filter-based Construction for Fractal Wavelet Frames.*

D. Dutkay and P. Jorgensen developed the concept of wavelets defined on a σ -finite fractal measure space arising from an iterated function system. We demonstrate a construction for wavelet frames on Dutkay-Jorgensen fractal spaces using finite frames from \mathbb{C}^n and consider potential applications. (Received February 16, 2010)