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Campus Box 395, Boulder, CO 80309-0395. *Fractal Wavelet Frames*. Preliminary report.

Several years ago, D. Dutkay and P. Jorgensen developed the concept of wavelets defined on a σ -finite fractal measure space developed from an iterated function system. In this talk, we consider wavelet frames on these enlarged fractal spaces and attempt to characterize them in terms of finite frames on \mathbb{R}^n or \mathbb{C}^n . (Received September 20, 2007)