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Dorin Ervin Dutkay* (ddutkay@gmail.com), Orlando, FL 32816, and **Gabriel Picioroaga**. *A unified construction of some classical and some new orthonormal bases.*

We show how representations of Cuntz algebras can be used to construct Fourier bases, Walsh bases, wavelet bases , Fourier bases on fractal measures and generalized Walsh bases. (Received February 02, 2018)