

HARMONIC AND SPECTRAL ANALYSIS

International Zoom Conference

October 4–6, 2023

Orthonormal bases and Parseval frames generated by Cuntz algebras and row co-isometries

DORIN DUTKAY

University of Central Florida

We will present a general procedure to obtain orthonormal bases by iterating Cuntz isometries, and to obtain Parseval frames by iterating row co-isometries. Such orthonormal bases include Fourier series, Walsh bases, Fourier series on Cantor-type measures and various generalizations.