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Fourier Frames for the Cantor-4 Set

Jorgensen and Pedersen constructed a Cantor type set consisting of numbers whose base four expansion contains digits 0 and 2. They showed that this set possesses a Fourier basis. We demonstrate that weighted Fourier Frames can be obtained for this set by making the set bigger, constructing a basis for the bigger set, and then projecting the basis onto the Cantor set. This is joint work with Gabriel Picioroaga.