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Fourier dimension and its modification

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This is joint work with Fredrik Ekström and Tomas Persson. We investigate how one can modify the Fourier dimension in order to fulfil the standard requirements of a dimension-like quantity. We found a way to keep all the data obtained from the original definition but can prove that our modification behaves more regularly. In particular our definition really defines a dimension and measures of a given dimension are classified by their 0-sets.