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Weak turbulence beyond the Euclidean case

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The theory of weak turbulence has seen much progress recently, in particular regarding the derivation of kinetic models. However, most of the literature, be it physical or mathematical, relies on Euclidean Fourier analysis. Since many interesting physical experiments or observations are set on more general domains, it is of interest to extend the theory in this direction - but the mathematical difficulties become rapidly overwhelming! I will present two attempts to make progress on this question. First, through the use of random matrices as a model of linear evolution (joint with G. Dubach and B. Harrop-Griffiths), and second by relying on the Random Wave model of Berry (joint with Hui Zhu).

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