

## Fourier decay of multiplicative convolutions

*lundi 27 mai 2024 11:00 (1 heure)*

**Abstract:** In the first part of the talk, we shall recall the main ideas involved in the proof of Fourier decay for multiplicative convolutions of Frostman measures on the real line. In particular, we will present a recent result obtained in collaboration with Tuomas Orponen and Pablo Shmerkin on the minimal number of convolution products necessary to obtain some Fourier decay. The second part of the talk will be devoted to the application of these ideas to the study of linear random walks on the torus, and will be based on joint work with Weikun He.

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