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Large fluctuations of complex oscillations

Recent precise estimates on the frequency of occurrence of intervals of rapid growth on a Brownian path are discussed. These are then used, together with the theory of Gaussian algebras, to obtain similar estimates for the large fluctuations of complex oscillations, which can be seen as Brownian motion generated by the set of Kolmogorov–Chaitin complex strings. This yields the Hausdorff dimension of the rapid points of such complex oscillations.