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Some recent results on Wigner integrals

In this talk, we present recent results dealing with Wigner integrals, which are the building blocks of free Brownian motion functionals. We will discuss limit theorems and quantitative limit theorems involving Wigner integrals, as well as several characterizations of freeness for free random variables having the form of Wigner integrals. If time permits, we will discuss applications of these characterizations to limit theorems.