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**From random matricial processes to noncommutative processes: A review of recent results**

Dyson-Brownian motion is the process of eigenvalues of an Hermitian Brownian motion. Its empirical measure valued process converges to the free Brownian motion, which is a noncommutative process. In this talk I will present an overview of some extensions of the Dyson-Brownian motion and new noncommutative process arising in a similar way.