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Title: “The Breuer-Major theorem: old and new”

Abstract: The celebrated Breuer-Major theorem is a central limit theorem for a sum of elements of the form $f(X_k)$, where $f: \mathbb{R} \rightarrow \mathbb{R}$ is a given function and X is a Gaussian stationary sequence with unit variance.

In my talk, I will introduce the so-called Malliavin-Stein method, and I will then use it to investigate different problems related to the Breuer-Major theorem.