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Free infinite divisibility for the classical normal distribution

In this talk we will show that the classical Gaussian is infinitely divisible with respect to *free* additive convolution; this is a rather surprising result, as this distribution played a minor role in free probability. We will give a combinatorial background and motivation for this investigation, and show the main points of the analytic proof of the result.

This is joint work with M. Bożejko, F. Lehner and R. Speicher.