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Central Limit Laws on Jones Towers

The re-interpretation of commuting squares as a noncommutative version of stochastic independence gives rise to the notion of Bernoulli shifts on Jones towers. We investigate central limit theorems on such towers and show that such laws exist for shifts with a homogeneous product representation. In particular, we report experimental results indicating that Wigner's semicircle law is among them.

This is joint work with Rolf Gohm.