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*A theorem of the central limit type, in the framework of the infinite symmetric group*

I will present a "central limit" type theorem, obtained in joint work with Claus Koestler, which arises in the framework of the infinite symmetric group  $S_\infty$ . The motivation for this theorem comes from ideas around the concept of exchangeability for non-commutative random variables. Somewhat unexpectedly, the resulting limit law turns out to be directly related to the distribution of a GUE random matrix.