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*A central limit theorem for the star-generators of the infinite symmetric group*

I will present a result with flavour of Central Limit Theorem which takes place in the framework of the infinite symmetric group  $S_\infty$ , and refers to a character of  $S_\infty$  parametrized by a positive integer  $d$ . The limit law appearing in this theorem can be described by using Hermite functions, due to its connection with the empirical eigenvalue distribution of a Gaussian Hermitian (GUE) random matrix of size  $d \times d$ . This is joint work with Claus Koestler, arXiv:1807.05633.