

Poisson type limit theorems for a noncommutative independence associated with positive symmetric cones

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Abstract

We present Poisson type limit theorems for a noncommutative independence (the bm-independence), which is naturally associated with positive symmetric cones in euclidian spaces, including \mathbb{R}_+^d , the Lorentz cone in Minkowski spacetime and positive definite (real symmetric or complex hermitian) matrices. The geometry of the cones plays significant role in the study as well as the combinatorics of bm-ordered partitions.