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Ergodic theoretical aspects of asymptotic representation theory

Abstract

We will review the ideas of ergodic theory in the asymptotic representation theory, which is a kind of unitary representation theory of "infinite-dimensional group". Then we extend this theory to quantum groups and compute explicitly a certain ergodic theoretic quantity in the case of quantum unitary groups. In terms of this quantity, we also discuss representation-theoretic differences between the infinite-dimensional unitary group and its quantization.