

q -analogues of representation-theoretic measures

Cesar Cuenca

MIT

Abstract

I will discuss joint work with Grigori Olshanski, about a remarkable family of probability measures, arising from the theory of orthogonal polynomials of the q -Askey scheme. This work was motivated by the following questions: (1) obtain multidimensional identities of hypergeometric series (e.g. the q -Dougall identity), and (2) study the problem of harmonic analysis for quantum groups.