QUANTUM PFAFFIAN AND QUANTUM SYMMETRIC SPACES

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Abstract

We study the quantum homogeneous space of $GL_q(2n)$ over $Sp_q(n)$ to determine the ring of the invariants and identify that the bi-invariants are essentially Macdonald polynomials or quantum zonal polynomials. We also introduce the quantum Pfaffian and prove some generalizations of classical identities. This is joint work with R. Ray.