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Abstracts of Short Communications and Posters

Section:

2. Algebra

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Quantum polynomial algebra is a multiparameter deformation of an algebra of polynomials, i. e. it is the algebra of regular functions on a quantum affine space

We assume that the multiparameters are in a *general position.* It is shown that projective modules of a rank ≥ 2 over this ring are free. If Λ, Λ' are Morita-equivalent quantum polynomials and Λ is a general one, then $\Lambda \simeq \Lambda'$. If a general quantum polynomial algebra Λ is a skew polynomial extension and Λ is a skew polynomial extension either $\Lambda \simeq \Lambda_1[X;\alpha]$ or $\Lambda \simeq \Lambda_1[X^{\pm 1};\alpha]$ with an automorphism α, then Λ_1 is a general quantum polynomial algebra.