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Integral bases of quantum cluster algebras for affine valued quivers

Let Q be an acyclic valued quiver. Recently, Rupel proved the quantum Caldero-Chapoton formula which gives a bijection from the set of indecomposable rigid valued representations of Q to the set of non-initial quantum cluster variables for the corresponding quantum cluster algebra. This correspondence enables us to obtain integral bases of the quantum cluster algebras for affine valued quivers by using the standard monomials constructed by Berenstein and Zelevinsky in their paper "Quantum cluster algebras". This talk is based on a joint work with M. Ding and J. Sheng.