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Quantum Cluster Characters via Hall-Ringel Algebras

It was recognized in the original papers of Caldero-Chapoton and Caldero-Keller that the multiplication formulas for cluster characters resemble the multiplication in the dual Hall-Ringel algebra. In this talk we will realize the quantum cluster character via a natural algebra homomorphism from the Hall-Ringel algebra to quasi-commuting Laurent polynomials. This is joint work with Arkady Berenstein.