

New Applications of the Reflection Equation Algebras

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The REA are treated to be q -analogs of the enveloping algebras $U(\mathfrak{gl}(N))$. In particular, each of them has a representation category similar to that of $U(\mathfrak{gl}(N))$.

I plan to exhibit new applications of these algebras:

1. q -analog of Schur-Weyl duality
2. q -Capelli formula
3. q -Frobenius formula

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