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New Applications of the Reflection Equation Algebras

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