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Leibniz
Universität
Hannover

Oberseminar zur Algebra und Algebraischen Kombinatorik

Dr. Philipp Lampe
(Universität Bielefeld)

"The quantum shuffle algebra and Lusztig's canonical basis"

The universal enveloping algebra of a simple Lie algebra is a non-commutative algebra; its modules are the representations of the Lie algebra. By quantization Lusztig constructed a canonical basis of the universal enveloping algebra. A theorem of Rosso asserts that the quantization can be embedded in the quantum shuffle algebra, a theorem of Geiß-Leclerc-Schröer asserts that the quantization carries the structure of a quantum cluster algebra. In this talk I will explain how one can use Rosso's embedding to prove that certain quantum cluster variables lie in the dual of the canonical basis.

Montag, 21.11.2011
ab 14:30 Uhr, Raum a410
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

gez. Prof. Dr. C. Bessenrodt

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