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Leibniz
Universität
Hannover

Oberseminar zur Algebra und Algebraischen Kombinatorik

Dr. Ulrich Thiel
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„Calogero–Moser and Lusztig families for finite Coxeter groups“

A fundamental tool in studying the (ordinary/modular) representation theory of a finite group of Lie type is the partition of the (ordinary) irreducible characters of the corresponding Weyl group into so-called Lusztig families. The most important families are the cuspidal ones, which are those not induced from a proper parabolic subgroup. In joint work with Gwyn Bellamy (University of Glasgow) we have identified these families as being the zero-dimensional symplectic leaves of the Calogero–Moser space attached to the Weyl group, thus providing a Poisson geometric interpretation of Lusztig's notion of cuspidality.

This is further evidence for a fundamental (yet unknown) connection between finite groups of Lie type and rational Cherednik algebras at $t=0$.

Montag, 27.06.2016
ab 16:00 Uhr, Raum a410
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

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und Diskrete Mathematik