Oberseminar

KLR algebras

SS 2015

Termin: **Mo. 15:30 – 17:00 (Raum 48-438)** Beginn: 20. 4. 2015

21.4.15	Gunter Malle:	**Introduction and motivation**
27.4.15	Pablo Luka:	**Khovanov–Lauda algebras, I** ([2, 2.1–2.3])
4.5.15	Ulrike Faltings:	**Khovanov–Lauda algebras, II** ([2, 2.4–2.6])
11.5.15	Elisabeth Schulte:	**Cyclotomic Hecke algebras and cellular algebras** ([5, 1.1–1.3])
18.5.15	Simon Schmider:	**Semisimple cyclotomic Hecke algebras** ([5, 1.4–1.6])
1.6.15	Eugenio Giannelli:	**Cyclotomic quiver Hecke algebras** ([3, 2.2–2.7],[5, 2.1–2.3])
8.6.15	Caroline Lassueur:	**Semisimple KLR algebras** ([5, 2.4–2.5])
15.6.15	Michael Livesey:	**Graded Specht modules** ([3, 5.3–5.4,6],[5, 3.1–3.2])
22.6.15	Michael Livesey:	**Graded Isomorphism Theorem**
29.6.15	Thomas Gobet:	**Graded induction and branching rules** ([3, §7],[5, 3.4])
6.7.15	Gunter Malle:	**Quantum groups and dual canonical basis** ([3, §8],[5, 3.5])
13.7.15	Caroline Lassueur:	**Graded Ariki's categorification** ([3, §9],[5, 3.5])
20.7.15	Britta Späth:	**James' conjecture and graded adjustment matrices** ([3, §10],[5, 3.7])

Literatur

[1] J. Brundan, Quiver Hecke algebras and categorification. Pp. 103–133 in: *Advances in Representation Theory of Algebras*, EMS Ser. Congr. Rep., Eur. Math. Soc., Zürich, 2013.

[2] M. Khovanov, A. Lauda, A diagrammatic approach to categorification of quantum groups. I. Represent. Theory **13** (2009), 309–347.

[3] A. Kleshchev, Representation theory of symmetric groups and related Hecke algebras. Bull. Amer. Math. Soc. **47** (2010), 419–481.

[4] A. Kleshchev, Representation theory and cohomology of Khovanov–Lauda–Rouquier algebras. Pp. 109–163 in: *Modular Representation Theory of Finite and p-adic Groups*, World Scientific, 2015.

[5] A. Mathas, Cyclotomic quiver Hecke algebras of type A. Pp. 165–266 in: *Modular Representation Theory of Finite and p-adic Groups*, World Scientific, 2015.

[4] and [5] are available electronically and as a book via our library.

Interessierte Hörer sowie weitere Vortragende sind herzlich willkommen!