Oberseminar WS 2013

DIAGRAM ALGEBRAS

Termin: **Mo. 15:30 – 17:00 (Raum 48-438)**   Beginn: 24.10.2013

28.10.13	Pablo Luka	**Cellular Algebras** [Xi06, §1, §2], [GL96], [KX98], [Mat99, §2]
04.11.13	Simon Schmider	$\mathbb{F}\mathfrak{S}_n$ **as a Cellular Algebra** [Mat99, Theorem 3.20]
11.11.13	Ulrike Faltings	**Diagram Algebras** [Dot04], [Cox+06]
18.11.13	Susanne Danz	**Diagram Algebras as Twisted Category Algebras** [LS12], [LS13]
25.11.13	Elisabeth Schulte	**Cellularity of Diagram Algebras** [Wil07]
02.12.13	——‖——	——‖——
16.12.13	Caroline Lassueur	**Towers of Recollement**[Cox+06]
06.01.14	Michael Livesey	**Blocks of the Walled Brauer Algebra** [Cox+08]
13.01.14	Atilla Maroti	**Geometric Characterisation of the Blocks of the Brauer Algebra** [CDVM09]
20.01.14		**Decomposition Numbers of the Walled Brauer Algebra** [CDV11]
27.01.14	Jay Taylor	**The Kronecker Problem** [BVO12]
03.02.14	Thomas Gobet	???

Interessierte Hörer sowie weitere Vortragende sind herzlich willkommen!

REFERENCES

[BVO12]   C. Bowman, M. D. Visscher, and R. Orellana, *The partition algebra and the Kronecker coefficients*, preprint (Oct. 2012), eprint: 1210.5579, URL: http://arxiv.org/abs/1210.5579.

[CDV11]   A. Cox and M. De Visscher, *Diagrammatic Kazhdan-Lusztig theory for the (walled) Brauer algebra*, J. Algebra **340** (2011), 151–181.

[CDVM09] A. Cox, M. De Visscher, and P. Martin, *A geometric characterisation of the blocks of the Brauer algebra*, J. Lond. Math. Soc. (2) **80** (2009), no. 2, 471–494.

[Cox+06] A. Cox et al., *Representation theory of towers of recollement: theory, notes, and examples*, J. Algebra **302** (2006), no. 1, 340–360.

[Cox+08] A. Cox et al., *On the blocks of the walled Brauer algebra*, J. Algebra **320** (2008), no. 1, 169–212.

[Dot04]   S. Doty, *New versions of Schur-Weyl duality*, in: *Finite groups 2003*, Walter de Gruyter, Berlin, 2004, 59–71.

[GL96]   J. J. Graham and G. I. Lehrer, *Cellular algebras*, Invent. Math. **123** (1996), no. 1, 1–34.

[KX98]   S. König and C. Xi, *On the structure of cellular algebras*, in: *Algebras and modules, II (Geiranger, 1996)*, vol. 24, CMS Conf. Proc. Providence, RI: Amer. Math. Soc., 1998, 365–386.

[LS12]   M. Linckelmann and M. Stolorz, *On simple modules over twisted finite category algebras*, Proc. Amer. Math. Soc. **140** (2012), no. 11, 3725–3737.

[LS13]   ———, *Quasi-hereditary twisted category algebras*, J. Algebra **385** (2013), 1–13.

[Mat99]   A. Mathas, *Iwahori-Hecke algebras and Schur algebras of the symmetric group*, vol. 15, University Lecture Series, Providence, RI: American Mathematical Society, 1999, xiv+188.

[Wil07]   S. Wilcox, *Cellularity of diagram algebras as twisted semigroup algebras*, J. Algebra **309** (2007), no. 1, 10–31.

[Xi06]   C. Xi, *Cellular Algebras*, Advanced School and Conference on Representation Theory and Related Topics (2006), URL: http://www.math.jussieu.fr/~keller/ictp2006/lecturenotes/xi.pdf.