Oberseminar

Representations of finite reductive groups

WS 12/13

Termin: **Mo. 15:30 – 17:00 (Raum 48-436)** Beginn: 15. 10. 2012

15.10.12	Gunter Malle:	**Reductive linear algebraic groups** ([7, §11–12])
22.10.12	Michael Cuntz:	**Finite groups of Lie type** ([7, §21–24])
29.10.12	Sebastian Herpel:	**Harish-Chandra theory** ([4, §4–6])
5.11.12	Michael Pleger:	**F-stable subgroups** ([7, §25–26])
12.11.12	Elisabeth Schulte:	**Deligne–Lusztig characters** ([2, 7.1–7.4])
19.11.12	Jay Taylor:	**Gelfand–Graev characters** ([2, §8],[4, §14])
26.11.12	Caroline Lassueur:	**Duality and the Steinberg character** ([4, §8–9])
3.12.12	Gunter Malle:	**Geometric duality and Lusztig series** ([2, §4],[4, §11,§13])
10.12.12	Gunter Malle:	**Unipotent characters** ([4, §11,§13])
17.12.12	Susanne Danz:	**Generic degrees** ([3, §68.C])
7.1.13	Jay Taylor:	**Classification of unipotent characters and Jordan decomposition** ([4, §11,§13],[6])
14.1.13	Marc Cabanes:	**Unipotent classes and Kawanaka representations** ([2, §5],[8, App.])
21.1.13	Britta Späth:	**d-Harish-Chandra theory** ([1])

Literatur

[1] M. Broué, G. Malle, Generalized Harish-Chandra theory. Pp. 85–103 in: *Representations of Reductive Groups*, Cambridge University Press, Cambridge, 1998.

[2] R. W. Carter, *Finite Groups of Lie Type. Conjugacy Classes and Complex Characters*. Wiley Classics Library. John Wiley & Sons, Chichester, 1993.

[3] C. W. Curtis, I. Reiner, *Methods of Representation Theory. Vol. II*. John Wiley & Sons, New York, 1987.

[4] F. Digne, J. Michel, *Representations of Finite Groups of Lie Type*. LMS Student Texts, 21. Cambridge University Press, Cambridge, 1991.

[5] M. Geck, G. Malle, On special pieces in the unipotent variety. *Experiment. Math.* **8** (1999), 281–290.

[6] ———, Fourier transforms and Frobenius eigenvalues for finite Coxeter groups. *J. Algebra* **260** (2003), 162–193.

[7] G. Malle, D. Testerman, *Linear Algebraic Groups and Finite Groups of Lie Type*. Cambridge Studies in Advanced Mathematics, 133. Cambridge University Press, Cambridge, 2011.

[8] J. Taylor, *On Unipotent Supports of Reductive Groups With a Disconnected Centre*. Phd Thesis, Univ. of Aberdeen, 2012.

Interessierte Hörer sowie weitere Vortragende sind herzlich willkommen!