

Oberseminar

Representations of finite reductive groups

SS 22

Termin: Mo. 16:00 – 17:30 (Raum 48-438) Beginn: 25. April 2022

25.4.22	Gunter Malle:	Reductive linear algebraic groups ([MT, §8,§9,§11.1])
2.5.22	Laura Voggesberger:	Finite groups of Lie type ([MT, §21–24])
16.5.22	Wolfgang Bock:	Maximal tori, Deligne–Lusztig characters ([MT, §25], [Ca, 7.1–7.4],[GM, 2.2])
23.5.22	Annika Bartelt:	Unipotent characters, degree polynomials ([GM, 2.3])
30.5.22	Birte Johansson:	Geometric conjugacy and Lusztig series ([Ca, §4],[GM, 2.5],[DM, 11.1,11.3])
13.6.22	Lucas Ruhstorfer:	Jordan decomposition and classification of unipotent characters ([GM, 2.6,4.3–4.5],[DM, 11.4–11.6])
20.6.22	Tamara Linke:	BN-pairs, Harish-Chandra theory ([GM, 3.1–3.2],[DM, §5])
27.6.22	Caroline Lassueur:	Levi subgroups, Lusztig induction ([GM, 3.3],[DM, §9])
4.7.22	Diego Robayo Bargans:	Duality and the Steinberg character ([GM, 3.4], [DM, §7])
11.7.22	Gunter Malle:	d-Harish-Chandra theory ([GM, 3.5], [BM])
18.7.22	Marie Roth:	Unipotent classes and Kawanaka representations ([Ca, §5],[Ta, App.], [DM, §12])

LITERATUR

- [BM] M. BROUÉ, G. MALLE, Generalized Harish-Chandra theory. Pp. 85–103 in: *Representations of Reductive Groups*, Cambridge University Press, Cambridge, 1998.
- [Ca] R. W. CARTER, *Finite Groups of Lie Type. Conjugacy Classes and Complex Characters*. Wiley Classics Library. John Wiley & Sons, Chichester, 1993.
- [DM] F. DIGNE, J. MICHEL, ‘*Representations of Finite Groups of Lie Type*’, London Mathematical Society Student Texts, **95**. Cambridge University Press, Cambridge, 2020.
- [GM] M. GECK, G. MALLE, *The Character Theory of Finite Groups of Lie Type: A Guided Tour*. Cambridge University Press, Cambridge, 2020.
- [MT] G. MALLE, D. TESTERMAN, *Linear Algebraic Groups and Finite Groups of Lie Type*. Cambridge Studies in Advanced Mathematics, 133. Cambridge University Press, Cambridge, 2011.
- [Ta] 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!