Leibniz Universität Hannover

Oberseminar

zur

Algebra und Algebraischen Kombinatorik

Prof. Dr. Wolfgang Willems

(Otto-von-Guericke-Universität Magdeburg)

"Quasi-projective and quasi-liftable characters"

For an irreducible p-Brauer character φ let Φ_φ denote the ordinary character associated to the projective cover of the module afforded by φ. We call a character Λ *quasi-projective* (with resp. to p) if $\Lambda = \sum_\varphi a_\varphi \Phi_\varphi$ with $a_\varphi \in \mathbb{Z}$. A p-Brauer character φ is called *quasi-liftable* if there is an ordinary character χ such that the Brauer character of its reduction mod p is a multiple of φ. For finite p-solvable groups it is well-known that all quasi-projective characters are projective, i.e. $a_\varphi \geq 0$, and all irreducible p-Brauer characters are liftable. In the talk we discuss the situation for arbitrary finite groups. There are still many open questions, in particular for indecomposable quasi-projective characters. The results are based on joint work with A. Zalesski.

Montag, 20.01.2014

ab 14:15 Uhr, Raum a410

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

gez. Prof. Dr. C. Bessenrodt

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