

## Einladung zum Algebra-Seminar „Halle-Jena“

Dienstag, 12. Mai 2015

- 14:15-15:15 Uhr **Benjamin Sambale** (Universität Jena),  
***Broué's Conjecture for the sporadic groups***  
Abstract: We prove the isotypy version of Broué's Abelian Defect Group Conjecture for the sporadic groups, their covers and automorphism groups. This has been done for the principal blocks by Rouquier and it remains to deal with the non-principal blocks.
- 15:15-15:45 Uhr Kaffeepause
- 15:45-16:45 Uhr **Carolina Vallejo Rodríguez** (Universitat de València),  
***Coprime action and Brauer characters***  
Abstract: Let  $A$  and  $G$  be finite groups. If  $A$  acts coprimely on  $G$  it is well-known that there is a natural correspondence between the irreducible  $A$ -invariant characters of  $G$  and the irreducible characters of  $C_G(A)$ , the fixed point subgroup of the action. In the modular case, no natural correspondence is known in general. Indeed, it is an open conjecture that the number of irreducible  $A$ -invariant Brauer characters of  $G$  coincides with the number of irreducible Brauer characters of  $C_G(A)$ . We reduce this conjecture to a question on finite simple groups. (Joint work with B. Späth).
- 17:00-18:00 Uhr **Sergey Shpectorov** (University of Birmingham),  
***Fusion systems related to Lie type groups of rank 2***
- 18:30 Uhr Abendessen im Weinbauernhaus „Im Sack“

**Alle Interessenten sind herzlich eingeladen.**

Die Veranstaltung findet im **SR 3517, Ernst-Abbe-Platz 2, Etage 5**, statt.

