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Leibniz  
Universität  
Hannover

# Oberseminar

## zur

# Algebra und Algebraischen Kombinatorik

**Jun. Prof. Dr. Caroline Lassueur**  
(TU Kaiserslautern)

## "Simple modules in the Auslander-Reiten quiver of principal blocks"

The aim of this talk is to come back to the question of whether simple modules in wild blocks should lie on the rim of their connected component in the stable Auslander-Reiten quiver of a group algebra over an algebraically closed field of characteristic  $p > 0$ . The answer is known to be affirmative for several classes of groups, as for instance  $p$ -solvable groups, groups of Lie type in their natural characteristic, groups with a normal  $p$ -subgroup, or (double covers of) symmetric or alternating groups under mild restrictions. In this talk we focus on the situation for principal blocks with abelian defect groups through a reduction to finite simple groups. This is joint work with Shigeo Koshitani.

**Montag, 22.01.2018**  
**ab 14:15 Uhr, a410**

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie  
und Diskrete Mathematik