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Leibniz  
Universität  
Hannover

# Oberseminar

zur

## Algebra und Algebraischen Kombinatorik

**Dr. Ruwen Hollenbach**  
(Leibniz Universität Hannover)

### "Basic sets for blocks of finite groups of Lie type"

Let  $G$  be a finite group and let  $B$  be a  $p$ -block of  $G$  with  $p$  a prime. Roughly speaking, a *basic set* for  $B$  relates the irreducible modular and irreducible ordinary characters in  $B$  in a very useful way.

When  $G$  is a finite group of Lie type, Geck and Hiss gave a non-constructive proof of the existence of basic sets for all  $p$ -blocks of  $G$  under some mild conditions on the prime  $p$ . In my talk I will explain how to construct these basic sets explicitly for certain groups of Lie type under similar conditions on the prime  $p$ .

**Donnerstag, 24.10.2019**  
**ab 14:15 Uhr, a410**

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie  
und Diskrete Mathematik