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Leibniz  
Universität  
Hannover

# Oberseminar zur Algebra und Algebraischen Kombinatorik

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## Self-extensions of irreducible modules over symmetric groups

It is conjectured that, in characteristic different from 2, no non-trivial self-extensions of irreducible modules of symmetric groups exist, that is there exists no module  $V$  with simple socle  $D$  such that  $V/D$  is isomorphic to  $D$ .

The conjecture is known to be true for some classes of modules but is still open in general. I will present recent results extending the classes of modules for which the conjecture holds as well as methods which can allow to extend such cases.

This is joint work with H. Geranios and A. Kleshchev.

**Donnerstag, 19.11.2020**  
**ab 15:15 Uhr**  
**in StudIP, per BBB im e-a410**

Alle Interessierten sind herzlich eingeladen.

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und Diskrete Mathematik