



Oberseminar zur Algebra und Algebraischen Kombinatorik

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"Classifying 2-blocks with an elementary abelian defect group"

Donovan's conjecture predicts that given a p -group D there are only finitely many Morita equivalence classes of blocks of group algebras with defect group D . While the conjecture is still open for a generic p -group D , it has been proven in 2014 by Eaton, Kessar, Külshammer and Sambale when D is an elementary abelian 2-group, and in 2018 by Eaton and Livesey when D is any abelian 2-group. The proof, however, does not describe these equivalence classes explicitly.

A classification up to Morita equivalence over a complete discrete valuation ring has been achieved for D with rank 3 or less, and for $D = (C2)^4$.

I have done $(C2)^5$, and I have partial results on $(C2)^6$. I will introduce the topic, give the relevant definitions and then describe the process of classifying these blocks, with a particular focus on the individual tools needed to achieve a complete classification.

Donnerstag, 07.11.2019
ab 14:15 Uhr, a410

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Alle Interessierten sind herzlich eingeladen.

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