



On the Local Structure of Morita and Rickard Equivalences between Brauer Blocks (Progress in Mathematics)

By Lluis Puig

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Brauer had already introduced the defect of a block and opened the way towards a classification by solving all the problems in defects zero and one, and by providing some evidence for the finiteness of the set of blocks with a given defect. In 1959 he discovered the defect group, and in 1964 Dade determined the blocks with cyclic defect groups.

In 1978 Alperin and Broué discovered the Brauer category, and Broué and the author determined the blocks having a nilpotent Brauer category. In 1979, the author discovered the source algebra which determines all the other current invariants, representing faithfully the block – and found its structure in the nilpotent blocks. Recently, the discovery by Rickard that all blocks with the same cyclic defect group and the same Brauer category have the same homotopic category focussed great interest on the new, loose relationship between blocks called Rickard equivalence.

This book describes the source algebra of a block from the source algebra of a Rickard equivalent block and the source of the Rickard equivalence.

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Editorial Review

Review

"The author investigates the behavior of the local structure of a block under Morita equivalences, stable equivalences of Morita type (called Morita stable equivalences here) and Rickard equivalences. The local structure of a block is expressed mainly in terms of its local category (consisting of local pointed groups and their exomorphisms), its Brauer category (consisting of Brauer pairs and their exomorphisms) and its source algebra."

–Zentralblatt Math

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