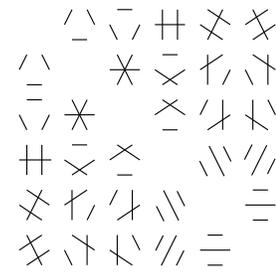


Mathematics Seminar



Rocky Mountain Algebraic Combinatorics Seminar

Trivial Source Modules and Defect Groups

John McHugh
University of Denver

I will explain in detail what a “trivial source module” of a finite group is, why they are important, and how they arise in the statement of the abelian defect group conjecture, which is one of the most famous unsolved problems in modular representation theory of finite groups.

Coherent Character Tuples

John McHugh
University of Denver

Recently, Boltje and Carman discovered an isomorphism between the trivial source ring of a finite group and a ring of so-called “coherent character tuples.” We introduce “block versions” of their isomorphism, and use these results to examine the connection between splendid Rickard equivalences and isotopies, which are block equivalences conjectured to exist in the situation of a block with an abelian defect group.

Weber 223
4–6 pm, Friday, November 22, 2024
(Refreshments 3:30–4 pm)
Colorado State University
4 pm, Friday, November 22, 2024

This is a joint Denver U / CU Boulder / U of Wyoming / CSU seminar that meets biweekly.
Anyone interested is welcome to join us at a local restaurant for dinner after the talks.



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