Hopf25

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Parallel session, Forum G
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16h30-16h55

Exact Factorizations of fusion categories and the bicrossed product construction

In 2017, Gelaki introduced the notion of exact factorization of fusion categories, generalizing the notion of exact factorization of groups. We show some general results about the structure of such factorizations, their fusion rules and universal grading groups. Also we introduce a new construction, the bicrossed product, to produce new examples, including some exact factorizations involving Tambara-Yamagami categories and pointed categories.

   The talk will be based in the preprint: `https://arxiv.org/abs/2405.10207`