Solvability of a class of braided fusion categories

Abstract:

We shall make an overview about fusion categories and some classes of examples related to finite groups. We shall discuss the notions of nilpotency and solvability of a fusion category introduced in the work of Etingof, Gelaki, Nikshych and Ostrik. Then we shall present some results on the solvability of braided fusion categories with Frobenius-Perron dimensions of simple objects ≤ 2, obtained in a joint work with J. Plavnik.

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