

Moving vectors of blocks of cyclotomic Hecke algebras

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The cyclotomic Hecke algebras were introduced by Ariki and Koike and independently by Broué and Malle, which include Hecke algebras of types A and B as special cases. They play an important role in modular representation theory of finite groups of Lie type, and are in relation with various significant objects, such as quantum groups and rational Cherednik algebras. Note that in type A the weight of a block can measure how complicated the block is. However, this is no longer true for cyclotomic Hecke algebras. As a result, many classical results of type A related with weights have no cyclotomic versions. In this talk, we introduce a new invariant called moving vector for blocks of cyclotomic Hecke algebras and give some applications.

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