

The representation theory of the Ariki-Koike algebras

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102 Bradley Hall, 4:00 pm
(Tea 3:30 pm Math Lounge)

Abstract

The Ariki-Koike algebras are a class of finite dimensional algebras which rose to prominence because of their (conjectural) connections with the representations of the finite groups of Lie type (such as $GL_n(q)$). This talk will give a survey of the representation theory of these algebras, and the related cyclotomic Schur algebras, with an emphasis on the combinatorial techniques that have been used to study them.