

**REPRESENTATION THEORY  
OF SYMMETRIC AND GENERAL LINEAR GROUPS**

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We survey basic facts about representation theory of the symmetric group  $S_n$  and the theory of the polynomial representations of the general linear group  $GL_d(K)$  over a field  $K$  of characteristic 0. The exposition is oriented to applications to the theory of algebras with polynomial identities and to commutative and noncommutative invariant theory.

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