

Abstract

Matrices over Finite Fields XII: Induction from the Borel Subgroup

The first main construction for the irreducible representations of the general linear group of a finite field is induction from a one-dimensional character of the Borel subgroup. In most cases, this induced module is already irreducible itself. If not, it decomposes into exactly two irreducible modules, one of which is one-dimensional. In the talk, we discuss how and when this happens.