

Abstract

Matrices over Finite Fields XIII: Isomorphism Classes

The induced representation of a one-dimensional character of the Borel subgroup has dimension $q + 1$. We have seen last time that this induced representation is either irreducible, or decomposes into a one-dimensional and a q -dimensional module. In this talk, we determine which of these modules are isomorphic and count the isomorphism classes of the modules that arise in this way.