

Geometry, Physics, and Representation Theory

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Characters

Abstract

What representation theorists usually do, they try to compute characters (so Representation theory is related to Psychology). Unlike in Psychology, we usually care about characters of irreducible representations of algebraic objects which usually originate in Lie theory. I'll review various developments in the subject starting 1900 or so and concentrate on algebraic objects that have to do with the general linear group $GL(n)$.