Representations of the general linear group: from ordinary to modular

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004 Kemeny, 3:30PM

Abstract

Let $V$ be an $n$-dimensional vector space over a field $k$ and consider the general linear group $GL(V)$. This talk will discuss the representation theory of the group $GL(V)$, how it changes as we let the field $k$ vary, and connections to geometry/topology and combinatorics. I will survey the necessary background material and recent results, including my own joint works with Juteau—Williamson and Riche.