

Positive-depth Deligne-Lusztig theory

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Representation theory and the geometry of flag varieties are deeply intertwined. For finite groups of Lie type, Deligne and Lusztig's breakthrough work in 1976 defined Frobenius-twisted versions of flag varieties whose cohomology realizes all representations of these groups. In the last quarter-century, generalizations of Deligne-Lusztig varieties have allowed us to study representations of p -adic groups explicitly. I will describe recent advances in this subject and their relationship to the Langlands program.

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