

Arithmetic and Algebraic Geometry: A conference in honor of Ofer Gabber
on the occasion of his 60th birthday

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Character formulas in the modular representation theory of algebraic groups

Monday, June 11, 2018 11:45 AM (1 hour)

I will review present two formulas for the characters of representations of reductive algebraic groups in positive characteristic p . Both formulas involve certain polynomials (" p -Kazhdan-Lusztig polynomials") which measure the failure of the decomposition theorem for resolutions of affine Schubert varieties, when the sheaf coefficients are of characteristic p . These formulas are proven under mild bounds on p (e.g. $p \geq 2 \times$ Coxeter number) and are expected to hold uniformly. (This is joint work with S. Riche, with parts also joint with P. Achar and S. Makisumi.)

Presenter: WILLIAMSON, G. (University of Sydney)