

Modular generalized Springer correspondence

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I will report on a *joint work in progress with Pramod Achar, Anthony Henderson and Daniel Juteau*, where we aim to construct and describe a generalized Springer correspondence for perverse sheaves on nilpotent cones, with coefficients in a field of positive characteristic p (generalizing the similar correspondence for characteristic-0 perverse sheaves due to Lusztig). We are now able to construct this correspondence for all classical groups and all p , to describe the cuspidal pairs, and to describe the correspondence explicitly in some cases.

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