

## Perverse equivariant sheaves on loop Lie algebras, and affine Springer theory

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This is a joint work with A. Bouthier and D. Kazhdan.

Let  $G$  be a connected reductive group, and let  $LG$  be the corresponding loop group. Our main goal is to construct a “perverse”  $t$ -structure on the derived category of  $\text{Ad } LG$ -equivariant sheaves on  $LG$  and to show that the affine Grothendieck-Springer sheaf belongs to its core.

More precisely, we construct the  $t$ -structure on the derived category of  $LG$ -equivariant sheaves supported on bounded regular semi-simple elements of  $LG$ , and we only consider its Lie algebra analog.

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