

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 $\mathrm{Ad} LG$ -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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