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MD 20740. *Geometry of generalized affine Springer fibers.*

The generalized affine Springer fibers are certain algebraic varieties that encode orbital integrals of spherical Hecke functions. They can also be viewed as linear analogues of affine Deligne-Lusztig varieties. I will discuss some basic geometric properties of these varieties, including non-emptiness, dimension and irreducible components. (Received March 04, 2021)