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Kostiantyn Timchenko* (ktimchen@nd.edu). *Characteristic cycles for K -orbits on Grassmannians.*

Let K be the fixed set of an involution of the complex group $GL(n)$. K acts on the Grassmannian with a finite number of orbits. We compute the characteristic cycle of the intersection cohomology sheaf of the orbit closure (with respect to the trivial local system). The cycles are irreducible for $K = GL(p) \times GL(q)$ and $Sp(2n)$. When K is $SO(n)$, roughly half of them are irreducible. (Received January 26, 2020)