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Affine Grassmannians over p-adics and double affine Hecke algebras

If K is a non-Archimedean local field and G a split simple algebraic group, the group of K((t))-points of G is not locally compact. Nevertheless, one can make sense of the Hecke algebra of this group by an appropriate Iwahori-type subgroup, by using certain function spaces on the set of K- points of the affine Grassmannian of G. This algebra can be identified with a version of Cherednik's double affine Hecke algebra.