

Base change and K -theory for Galois orbits of p -adic $GL(n)$

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Abstract

Let E/F be a finite Galois extension of a nonarchimedean local fields and let $G = GL(n)$. We investigate base change E/F at the level of K -theory for the reduced spherical C^* -algebra $C_r^*(G//K)$ and the reduced Iwahori C^* -algebra $C_r^*(G//I)$. We also consider general orbits of $GL(n)$ and show that, at the level of the K -theory group K^1 , base change is multiplication by the residue degree $f = f(E/F)$, generalizing the results obtained for the extended quotient.