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Endoscopic identities for classical groups over non Archimedean local fields of positive characteristic.

Abstract : If G is a split reductive group over \mathbf{Z} , and F and F' are non Archimedean local fields that are close in a suitable sense, then there is a bijection, defined by Kazhdan, between irreducible smooth representations of $G(F)$ and $G(F')$ that have nonzero vectors fixed under appropriate compact open subgroups. This transfer of representations preserves several important properties of arithmetic interest.

We will consider the case where G is a classical group and study the behavior with respect to this transfer of certain identities of characters coming from twisted endoscopy.

We will apply our result to build tempered L-packets for $G(F)$ with F of positive characteristic from the tempered L-packets for $G(F')$, with F' of characteristic zero, that have been constructed by Arthur.

This is joint work with Sandeep Varma.