
ADÈLE BOURGEOIS, Tutte Institute for Mathematics and Computing
Functoriality of Supercuspidal L -packets

The Local Langlands Correspondence requires L -packets to satisfy a fundamental functorial property. Borel phrases this property entirely in terms of the representations inside the L -packets. Solleveld presents a more precise form of this conjecture involving characters on a dual group.

In this talk, we restrict our attention to L -packets for supercuspidal L -parameters of tame p -adic groups. Such packets were constructed by Kaletha and consist entirely of supercuspidal representations, for which we have explicit descriptions. We show that Kaletha's L -packets satisfy this wanted functorial property. Furthermore, we show that Solleveld's conjecture holds for quasisplit groups when the L -packets come from supercuspidal L -parameters which are regular.