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Tasho Kaletha*, 530 Church Street Room 5836, Ann Arbor, MI 48109. *On double covers of tori.*

If T is a torus defined over a local field F and R is a finite Galois-invariant subset of its character module, we will introduce a topological double cover $T(F)_\pm$ of $T(F)$, as well as an L -group ${}^L T_\pm$ that is a usually non-split extension of the Galois group by the dual torus \hat{T} , so that genuine characters of $T(F)_\pm$ correspond canonically to Langlands parameters valued in ${}^L T_\pm$. The double cover $T(F)_\pm$ simplifies the Harish-Chandra character formula for regular supercuspidal representations and the formulation of the local Langlands correspondence for these representations. Time permitting we will discuss a generalization to twisted Levi subgroups. This generalizes the ρ -cover introduced by Adams and Vogan over the real numbers. (Received January 19, 2021)