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*Branching to the derived group of length-one toral supercuspidal representations*

Let  $\pi$  be a length-one toral supercuspidal representation of a connected reductive group  $G$ , such as constructed by Adler (and in greater generality by Yu). Using methods from work by Hakim and Murnaghan, we give an explicit decomposition of the restriction of  $\pi$  to the derived group  $G'$  of  $G$ . This restriction is given in terms of the restriction to  $G'$  of the  $G$ -datum used for the construction of  $\pi$ . In particular we are able to show that this restriction has multiplicity one, affirming a case of a conjecture of Adler and Prasad.