1043-22-141        **Jeffrey D Adler**, **Stephen DeBacker** and **Loren R Spice\*** (`lspice@umich.edu`).
*Supercuspidal characters and applications.*

In 2000, J.-K. Yu described a construction of supercuspidal characters of general reductive p-adic groups that generalises the classical construction of Howe and Moy (and is often exhaustive, by J.-L. Kim). J. Adler and the presenter computed the characters of some of these representations using Harish-Chandra's integral formula. These formulæ are expected to have many applications in harmonic analysis. In particular, S. DeBacker and the presenter are investigating their relevance to stability of character sums. (Received August 25, 2008)