1001-22-116        **Loren R Spice\*** (`spice@math.uchicago.edu`), 2074 East Hall, Ann Arbor, MI 48109.
*Supercuspidal characters of $SL_\ell$ over a p-adic field, $\ell$ a prime.*

An integral formula of Harish-Chandra gives the character of an induced supercuspidal representation of a $p$-adic group $G$ in terms of the character of the inducing representation. DeBacker has evaluated this integral for $G = GL_\ell(F)$. Combining his results with work of Assem and Kazhdan, we evaluate a similar integral formula to compute many supercuspidal characters of $SL_\ell(F)$. (Received August 18, 2004)