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*Supercuspidal characters of  $p$ -adic  $SL_\ell$ ,  $\ell$  a prime*

Character computations, and in particular supercuspidal character computations, are an important part of  $p$ -adic harmonic analysis. In this talk, we arrive at explicit supercuspidal character formulae for  $SL_\ell$  over a  $p$ -adic field by evaluating an integral formula due to Harish-Chandra. Our computations also allow us to describe explicitly the local Langlands parameters of many supercuspidal representations of  $GL_\ell$ .