LOREN SPICE, Texas Christian University
Harmonic analysis on p-adic SL_2

A series of papers by Sally and Shalika in the late '60's gave a stunningly detailed picture of harmonic analysis on p-adic SL_2, but did not include the proofs for the character computations on which the enterprise was founded. 40 years later, "the Sally gang" gathered to use modern technology to create a streamlined version of the old proofs. In this talk, I will report on the tools we used, and interesting intermediate results along the way.