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Mod p representations of p-adic  $\tilde{SL}_2$  via Hecke algebras

In characteristic 0, the genuine Iwahori Hecke algebra of  $\tilde{S}L_2$  is isomorphic to the Iwahori Hecke algebra of the dual group  $PGL_2$ , giving a correspondence of irreducible representations with Iwahori-fixed vectors. In contrast, we show that these two algebras are not isomorphic in characteristic p. However, the respective spherical mod p Hecke algebras are isomorphic, and after classifying the ordinary mod p representations of  $SL_2$ -tilde, we show that this isomorphism gives a correspondence of unramified ordinary mod p representations.