

1093-11-207

**Karol Koziol\*** ([karol@math.columbia.edu](mailto:karol@math.columbia.edu)), Columbia University Department of Mathematics, Room 509, MC 4406, 2990 Broadway, New York, NY 10027. *Towards a Langlands correspondence for Hecke modules of  $SL_n$  in characteristic  $p$ .* Preliminary report.

We show how to realize the pro- $p$ -Iwahori-Hecke algebra of  $SL_n$  as a subalgebra of the pro- $p$ -Iwahori-Hecke algebra of  $GL_n$ . Using the interplay between these two algebras, we deduce a numerical Langlands correspondence between "packets" of Hecke modules and mod- $p$  projective Galois representations. (Received August 14, 2013)