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Bonita Lynn Graham* (bgraham@wesleyan.edu). *A construction of rigid analytic cohomology classes for split reductive linear algebraic groups.*

Ash and Stevens showed that it is possible to lift ordinary classical Hecke Eigensymbols on connected reductive groups to unique overconvergent Hecke Eigensymbols. Pollack and Pollack showed explicitly how to compute these lifts in the case of GL_3 . I extend this constructive proof to any split connected reductive linear algebraic group G .

The key step is constructing a suitable filtration on D_λ , the space of p -adic distributions on weight λ functions on the big cell of G . An explicit formula for the filtration is given, allowing the computation of approximations of the overconvergent eigenclasses. (Received September 16, 2013)