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George J. Schaeffer* (gschaeff@math.ucla.edu), UCLA Mathematics Department, Box 951555, Los Angeles, CA 90095-1555. *The Hecke stability method.*

The Galois representations associated to spaces of weight 1 cusp forms mod p have several interesting arithmetic properties (for example, their projectivizations are unramified at p). However, such spaces cannot be computed “directly” using modular symbols. In this talk I will outline the “Hecke stability method” which, for a given N , computes the space of weight 1 level N cusp forms modulo all primes p simultaneously. Time permitting, I will also present some remarkable data which this method has produced. (Received September 22, 2012)