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David Pollack* (dpollack@wesleyan.edu) and **Avner Ash**. *Computations with an eigencurve for $GL(3)$.*

Starting with a numerically non-critical (at p) Hecke eigenclass f in the homology of a congruence subgroup Γ of $SL_3(\mathbb{Z})$ (where p divides the level of Γ) with classical coefficients, we will show how to compute to any desired degree of accuracy a lift of f to a Hecke eigenclass F with coefficients in a module of p -adic distributions. Then we will discuss an ongoing calculation to find to any desired degree of accuracy the germ of the projection to weight space of the eigencurve Z around the point z corresponding to the system of Hecke eigenvalues of F . We do this under the conjecturally mild hypothesis that Z is smooth at z . (Received September 16, 2014)