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*An "Eichler-Shimura" congruence in a bad reduction case*

Let $X_1(p)$ be the Siegel moduli space classifying principally polarized abelian varieties of genus $g$ with a non-trivial $p$- division point. Let $\chi$ be a non-trival character of $\mathbb{Z}/pBbbZ$. The $\chi$-equivariant part of the cohomology of $X_1(p)$ is the sum of two pieces: one on which the inertia acts through *chi*, and one on which it acts trivially. We exhibit a polynomial annihilating Frobenius on the latter piece. This result will be used in a joint work with J. Tilouine.