ERRATA for “The Jacquet–Langlands correspondence, Eisenstein congruences, and integral $L$-values in weight 2”

Kimball Martin
August 13, 2018

Here we summarize corrections to the published article [Mar17], and refer the reader to the corrected version for more details. The primary corrections are that one should include the hypotheses $p \nmid h_F$ and $h_F$ is odd in Theorem 2.1. We thank Jack Shotton for pointing out the error when $p \mid h_F$.

Errata/remarks:

• (1.2) should read:

$\mathcal{M} = M(\mathcal{O}, 1) = \{\phi \in M(\mathcal{O}) : \phi(z) = \phi(zx) \text{ for } z \in \hat{F}^\times, x \in \hat{B}^\times\}.$

Consequently, the following remarks about $\dim \mathcal{M}$ should be ignored.

• The display equation at the top of p. 1785 should read:

$S = \{\phi \in \mathcal{M} : [\phi, \psi \circ N] = 0 \text{ for all characters } \psi : \text{Cl}^+(\mathfrak{o}_F) \to \mathbb{C} \text{ s.t. } \psi^2 = 1\}.$

• The references given in the last line of Section 1 (p. 1785) do not quite verify the assertion two paragraphs above that Jacquet–Langlands correspondence gives a Hilbert modular form $f$ of level $\mathfrak{N}$. However, it is a simple consequence of known facts about the local Jacquet–Langlands correspondence. See [Mar] for a proof of this assertion.

• The proof of Theorem 2.1 should be modified in light of the first 2 corrections.

References


*Department of Mathematics, University of Oklahoma, Norman, OK 73019

1Available at http://www.math.ou.edu/~kmartin/papers/JL cong-cor.pdf