

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

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Here we summarize corrections to the published article [Mar17], and refer the reader to the corrected version¹ 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 $p|h_F$.

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:

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

- 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

- [Mar17] Kimball Martin, *The Jacquet–Langlands correspondence, Eisenstein congruences, and integral L -values in weight 2*, Math. Res. Lett. **24** (2017), no. 6, 1775–1795.
- [Mar] ———, *The basis problem revisited*. arXiv:1804.04234.

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¹Available at <http://www.math.ou.edu/~kmartin/papers/JLcong-cor.pdf>