ERRATUM TO “HEEGNER CYCLES AND $p$-adic $L$-FUNCTIONS”

FRANCESC CASTELLA AND MING-LUN HSIEH

Theorem 6.3: The statement should read
\[ \dim F Sel(K_{p^n}, V_{f, \chi}) = \frac{(1 - \epsilon(V_{f, \chi}))}{2} \cdot [K_{p^n} : K] + e. \]

Lemma 7.5: We have to assume further $L/\mathbb{Q}_p$ to be unramified in the lemma in order to use Fontaine-Laffaille theory, and we do not know if this lemma holds when $L/\mathbb{Q}_p$ is ramified. This lemma was used in Prop. 7.6 and Prop. 7.8 to conclude the Kolyvagin’s derivative classes satisfy the local condition at $p$, which one can instead use Perrin-Riou’s theory to verify. The proof of this fact is given in a work of Kobayashi and Ota [KO, Lemma 5.7].

Lemma 7.10: “...be a $p$-ramified extension...” should read “be a $p$-ramified abelian extension...”.

The explanation after Lemma 7.10 is revised in the latest version of this paper.

REFERENCES