ERRATUM TO “ON THE ANTICYCLOTOMIC IWASAWA MAIN CONJECTURE FOR MODULAR FORMS”

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The hypothesis (CR+) (3) and (4) in [CH15, page 865] should be replaced by the following stronger one:

(3) \( \overline{\rho}_f \) is ramified at \( \ell \) if either of the following holds:
   
   (i) \( \ell \mid N^- \) and \( \ell^2 \equiv 1 \pmod{p} \),
   (ii) \( \ell \mid N^+ \).

(4) \( \overline{\rho}_f|_{I_{\ell}} \) is irreducible if \( \ell^2 \mid N^+ \) and \( p \mid \ell - 1 \).

This is because Proposition 1.9 (2) does NOT hold when \( \overline{\rho}_f \) is unramified at some prime \( \ell \mid N^+ \), which causes troubles in the proofs of Proposition 6.8 and its key consequence Corollary 6.9 concerning the freeness of certain Selmer groups. Thus, the main results (Theorem 1 and Corollary 2) are actually proved only in the minimal case in the sense that the Artin conductor of the residual Galois representation \( \overline{\rho}_f \) agrees with \( N \). In the general case, Corollary 6.9 can be proved by combining the vanishing of anticyclotomic \( \mu \)-invariants, results in the minimal case and Iwasawa theoretic techniques. Details can be found in [KPW17].

REFERENCES
