ERRATA : COMPUTING CLASSICAL MODULAR FORMS FOR ARBITRARY CONGRUENCE SUBGROUPS

ERAN ASSAF

This note gives errata for the paper [1]; thanks to Robert Pollack, John Voight, and Edgar Costa.

(1) Table 1: All the complexities should be multiplied by $k \log k$.
(2) Theorem 1.2.5: The complexity is $O(Cdk \log kp \log p)$ (not $O(Cdp \log p)$ - the factor of $k \log k$ is missing.
(3) Example 1.2.6: The complexities are $O(dk \log kp \log p)$ in both examples.
(4) Theorem 1.2.7: The complexity should be multiplied by $k \log k$.
(5) Example 1.2.11: The complexity is $O(dk \log kp \log(Np) + N^2 \log^2 N)$.
(6) Corollary 4.5.11: The complexity is $O(k \log kp \log p)$ (and not $O(p \log p)$ - missing the factor of $k \log k$).

References

[1] Eran Assaf, *Computing classical modular forms for arbitrary congruence subgroups*, Arithmetic geometry, number theory, and computation, Simons Symp., Springer, Cham, 2021, pp. 43–104, DOI 10.1007/978-3-030-80914-0_2.