

CORRIGENDUM

KERNEL FUNCTIONS OF THE TWISTED SYMMETRIC
SQUARE OF ELLIPTIC MODULAR FORMS

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We give a list of corrections for the paper.

- p. 186, line 12: when $\nu = 0$, r^ν should be understood to be $r^\nu = 1$ (even if $r = 0$). Similarly, when $\nu = 0$, the following values should be understood to be 1:
 - p. 188, λ^ν in line 16;
 - p. 188, r^ν in line 2 from the bottom;
 - p. 189, λ^ν in line 2;
 - p. 190, $(z + q)^\nu$ in line 9 from the bottom;
 - p. 190, z^ν and $(-\frac{r}{2\alpha}\tau)^\nu$ in line 6 from the bottom;
 - p. 190 $(\frac{r}{2\alpha})^\nu$ in line 3 from the bottom;
 - p. 195, r^ν in line 3.
- p. 187, line 8: insert “ $a(n, s)$ is holomorphic on the same region.” after “ $s \neq 1$.”
- p. 195, line 11: “all $s \in \mathbf{C}$ ” should be “ $\Re s > \frac{1}{2}$ ”.
- p. 198, Lemma 10(2)(ii) and p. 199, Proposition 3(1)(ii): “ $f_*^{1+\eta}$ ” should be “ $f_*^{1+2\eta}$ ”.
- p. 199, line 15 from the bottom: add “ $M = |D_K| = M_1, L = 1$ and” after “In this case,”
- p. 200, line 3: “ $\nu^{(s-k+1+\nu)/2}$ ” should be “ $\nu^{(\sigma-k+1+\nu)/2}$ ”.
- p. 200, line 8: delete π from the exponent in the power with base e.
- p. 200, line 10: “ $e^{-\pi(v/2)}$ ” should be “ $e^{-v/2}$ ”.
- p. 200, line 11: “ $K_1 := 2^{\sigma-(1/2)}|\Gamma((s-k+\nu+1)/2)|^{-1}$ ” should be “ $K_1 := \pi^{\sigma/2+(1/4)}2^{\sigma+(1/2)}|\Gamma((s-k+\nu+1)/2)|^{-1}$ ”.
- p. 200, line 9 from the bottom: “ $N_1 \mid r, N_2 \nmid r$ ” should be “ $\gcd(r, N) = N_1$ ”.
- p. 204, line 3 from the bottom, insert the following sentence after the formula of $A(1, \pm 10, s)$: “Similarly, if $r^2 - 100 = 5f^2$ with some $f \in \mathbf{N}$, then by Propositions 2, 3(2) and Lemma 3(a)(2-2), one has

$$A(1, r, s) = \sqrt{5} \frac{\Upsilon_{5, \chi_5}^s(f)\zeta(s)}{(1+5^{-s})\zeta(2s)} F_{r/5, 1}^1(5^{-s}),$$

$$F_{r/5, 1}^1(5^{-s}) = \frac{-\chi_5(2r/5)5^{-s}}{1-5^{1-2s}} (1-5^{1-s})(1+5^{1-s} - 5^{m+1-(2m+1)s}(1+5^{-s})),$$

where m is the integer such that 5^m is the highest power of 5 dividing $f/5$.”

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