CORRIGENDUM, VOLUME 79

P. Ponomarev, *Class numbers of definite quaternary forms with nonsquare discriminant*, pp. 594–598.

p. 595, line 10, replace "nd > 3" by "nd ≠ 1, 3"

p. 596, line 17, after "nd > 3," insert "nd ≠ D/2,"; replace "d < D^{1/2}" by "d is odd"

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The number 0.1414 appearing on the right of the last displayed inequality of [1] is too large. A trivial calculation shows it can be replaced by 0.1410 which yields a minor improvement in the final result. (Lowell Schoenfeld informs me that taking \( R = 1.08 \), instead of 1.1, leads to the improved lower bound of 0.7181792 for the proportion of zeros on \( \xi(s) \) on \( \sigma = \frac{1}{2} \). Presumably a semi-optimal mollifier as in [2] would yield a better improvement.)

The second displayed formula of [1, p. 953] should be replaced by

\[
\int_T^{T+U} \log |\psi G(a + it)| \, dt \leq U \log \left( \frac{1}{U} \int_T^{T+U} |\psi G(a + it)| \, dt \right).
\]

The integral on the right is then dominated by the sum of a main term and minor terms. The Schwarz inequality is then used on the main term to get a term of the form

\[
\left( \frac{1}{U} \int_T^{T+U} |\psi H(a + it)|^2 \, dt \right)^{1/2}.
\]

REFERENCES
