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ERRATUM

Lattice orbit distribution on $\mathbb{R}^2$ – ERRATUM

ARNALDO NOGUEIRA

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There are errors in the equation below in [**1**] and the sentence which follows (see page 1209):

$$q_k(\omega) = \omega^{-k} - \omega^k.$$

Thus (3.3) reads $\omega^{-k} - \omega^k \leq n < \omega^{-k-1} - \omega^{k+1}$.

They must be replaced by the correct equation below and a new line following it:

$$q_k(\omega) = (\omega^{-k} + (-1)^k \omega^{k+2})/(1 + \omega^2).$$

Thus (3.3) reads

$$(\omega^{-k} + (-1)^k \omega^{k+2})/(1 + \omega^2) \leq n < (\omega^{-k-1} + (-1)^{k+1} \omega^{k+3})/(1 + \omega^2),$$

and as $\omega^k \to 0$, *as* $k \to \infty$, *we have* $k = O(\log n)$ *which proves the lemma.*

References

[1] A. Nogueira. Lattice orbit distribution on $\mathbb{R}^2$. *Ergod. Th. & Dynam. Sys.* **30**(4) (2010), 1201–1214.

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