Corrigendum: Upper Bounds for Prime Gaps Related to Firoozbakht's Conjecture

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1 Corrigendum

The proof of Theorem 3 in [K], as well as subsequent discussion, should reflect the true range of applicability of Eq. (11), necessitating the following changes (see [A]):

In inequality (11), replace " $x \ge 5.43$ " with " $x \ge 2634800823$ "

Remove "Let k > 9." after inequality (11).

In inequalities (12) and (13), remove "for $p_k \ge 29$ ".

Replace the last two sentences of the proof of Theorem 3 with

Now, exponentiation with base p_k yields (1) for $p_k \ge 2634800823$. This completes the proof since for $p_k \in [29, 2634800823]$ both (1) and (10) hold unconditionally.

In the 2nd display formula on p. 5, replace " $x \ge 5.43$ " with " $x \ge 2634800823$ ".

These changes have been incorporated in the arxiv paper arXiv:1506.03042v4.

References

[K] A. Kourbatov, Upper bounds for prime gaps related to Firoozbakht's conjecture, *Journal* of Integer Sequences, **18** (2015), Article 15.11.2.

[A] C. Axler, Corrigendum to "New bounds for the prime counting function", *Integers* 16 (2016), A22, 15 pp. http://math.colgate.edu/~integers/vol16.html