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Erratum to: Semigroup identities in the monoid of triangular tropical matrices

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One of the conditions in the main result of the paper [1] is too strict as it stands: Theorem 4.8 should be replaced as follows.

Theorem 4.8 *Any two triangular tropical matrices* $X, Y \in U_n(\mathbb{T})$ *having the same diagonal satisfy the (nontrivial) identities:*

$$\widetilde{w}_{(C,P,n-1)} \, X \, \widetilde{w}_{(C,P,n-1)} = \widetilde{w}_{(C,P,n-1)} \, Y \, \widetilde{w}_{(C,P,n-1)},$$

where $\widetilde{w}_{(C,P,n-1)}$ *is any word having as its factors all the words of length* $n-1$ *generated by* $C = \{X, Y\}$ *of powers* $P = \{1, 2, \ldots, n-1\}$, *such that* $\widetilde{w}_{(C,P,n-1)} \, X \, \widetilde{w}_{(C,P,n-1)}$ *and* $\widetilde{w}_{(C,P,n-1)} \, Y \, \widetilde{w}_{(C,P,n-1)}$ *are generated by* C *and powers* P.

The proof of the theorem appears in [2, Theorem 4.5].

References

1. Izhakian, Z.: Semigroup identities in the monoid of triangular tropical matrices. Semigroup Forum **88**(1), 145–161 (2014)
2. Izhakian, Z.: Semigroup identities of tropical matrix semigroups of maximal rank. Semigroup Forum (to appear). http://link.springer.com/article/10.1007%2Fs00233-015-9765-6

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