## Corrigendum

to the paper

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Periodicity and eigenvalues of matrices over quasi-max-plus algebras Tsukuba J. Math., **37** (2013), pp. 51–71

p. 55: Replace Proposition 2.5 (iv) by:

(iv) Let  $\alpha, \beta \in \mathcal{D}$  with  $\alpha <_{\text{lex}} \beta$ . Then we have  $\alpha \gamma \leq_{\text{lex}} \beta \gamma$  for all  $\gamma \in \mathcal{D}$ .

p. 55: Replace the proof of Proposition 2.5 (iv) by:

(iv) Assume  $\alpha \gamma >_{\text{lex}} \beta \gamma$ . Then  $\alpha, \beta, \gamma \neq \varepsilon$ , and in view of our prerequisites we have  $\alpha_1 = \beta_1$  and  $\alpha_2 < \beta_2$ . This implies

$$(\alpha \gamma)_1 = (\beta \gamma)_1,$$

hence

(1) 
$$\max\{\alpha_2, \gamma_2\} = (\alpha\gamma)_2 > (\beta\gamma)_2 = \max\{\beta_2, \gamma_2\}$$

by our assumption. Therefore  $\gamma_2 = \min S$  and the left hand side of (1) equals  $\alpha_2$ , while the right hand side of (1) equals  $\beta_2$ : Contradiction.

p. 56: Replace the proof of Proposition 2.5 (v) by:

(v) We clearly have  $\alpha_2 = \beta_2$ . Now, the assumption  $\alpha_1 < \beta_1$  leads to the contradiction  $(\alpha_1)^n < (\beta_1)^n$ . Therefore we must have  $\alpha_1 \ge \beta_1$ . Analogously we find  $\alpha_1 \le \beta_1$ , and we conclude  $\alpha_1 = \beta_1$ .

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