Correction to "Derivational complexity of string-rewriting systems"

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I would like to correct Theorem 5.6 in [1] as follows (see [2]).

Theorem 1. *Let $\alpha > 1$ be a real number. If there is a finite rewriting system with derivational complexity equivalent to n^α or α^n, then α is computeble in time $C^{C^{2^n}}$ for some constant $C > 1$.*

References

[1] Y. Kobayashi, The derivational complexity of string-rewriting systems, RIMS Kokyuroku 1712 (2010), 140–147.

[2] Y. Kobayashi, The derivational complexity of string rewriting systems, Theoret. Comp. Sci. **438** (2012), 1–12.