

# CORRIGENDUM TO "ON ITERATED FUNCTION SYSTEMS WITH PLACE-DEPENDENT PROBABILITIES"

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In my paper "On iterated function systems with place-dependent probabilities" published in *Proceedings of the American Mathematical Society* **143** no 1. (2015), pages 419–432 [1], the proof of the main theorem contains a crucial error. The estimates in page 427 line 2–5 and in page 429 line 6–7 are incorrect. The solution of this problem was far from being trivial and so the proof of this paper remains incomplete.

In our recent paper with my coauthors, Károly Simon, Boris Solomyak and Adam Śpiewak, we were able to circumvent the problem. Under more restrictive assumptions on the smoothness of a one-dimensional parameter family of iterated function systems, we showed that the claim of the main theorem remains valid even for a wider class of parameter dependent family of invariant measures. For details, we refer the reader to [2].

## REFERENCES

- [BB15] [1] B. Bárány: On iterated function systems with place-dependent probabilities. *Proc. Amer. Math. Soc.* **143** (2015), no. 1, 419–432.
- [BSSS] [2] B. Bárány, K. Simon, B. Solomyak and A. Śpiewak: Typical absolute continuity for classes of dynamically defined measures, arXiv:2107.03692, 2021.