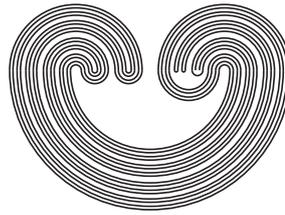


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## ERRATUM TO: ON DOUBLE SPIRALS IN FIBONACCI-LIKE UNIMODAL INVERSE LIMIT SPACES

by

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**ERRATUM TO: ON DOUBLE SPIRALS IN  
FIBONACCI-LIKE UNIMODAL INVERSE LIMIT SPACES**

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Let  $\varprojlim([c_2, c_1], T)$  be the core inverse limit space of a unimodal map  $T$  restricted to the core  $[c_2, c_1]$ . The purpose of the paper [3] was to create distinct rays  $C, C'$  inside  $\varprojlim([c_2, c_1], T)$  that converge to the same limit point, thus forming what was called a *double spiral*. However, the proof of Theorem 1 in [3] is false, because the backward itineraries associated to  $C$  and  $C'$  cannot be simultaneously admissible. This follows from Lemma 1 below, to which I am indebted to Ana Anušić. In fact, Theorem 1 cannot be repaired, because it follows from a slight extension of [1, Proposition 1] that every subcontinuum of a unimodal inverse limit space contains a dense copy of  $\mathbb{R}$  **having a single symbolic tail**. Double spirals fail this property, regardless of the inverse limit space. The claim that the converse of Brucks & Diamond's result (namely that points with the same symbolic tail belong the same arc-component, [2, Lemma 2.8]) is false still stands. Indeed, some unimodal inverse limit spaces contain copies of  $\mathbb{R}$  converging on either side to a point, see e.g. the bar  $F$  in the arc + ray continuum of Example 3 in [1]. The resulting arc has three symbolic tails.

**Lemma 1.** *Let  $a_1 < a_2 < a_3 < a_4 < a_5$  be positive integers. Then for any tent map,  $\varprojlim([c_2, c_1], T)$  does not contain simultaneously arcs  $A$  and  $A'$  with folding patterns  $a_1, a_3, a_5$  and  $a_1, a_2, a_1, a_3, a_4, a_3, a_5$ .*

*Proof.* Let  $A'$  be an arc with folding pattern  $a_1, a_2, a_1, a_3, a_4, a_3, a_5$ . Then the projections  $\pi_{-a_5}, \dots, \pi_{-a_1}$  of  $A'$  and maps  $T^{a_5-a_4}, \dots, T^{a_2-a_1}$  are as

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