

Corrigendum for “Set families with a forbidden subposet”

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The proof of Lemma 7 does not establish the lemma as stated. The problem occurs when the interval I is contained in more than one maximal chain of the poset P . The proof shows that one of these maximal chains of P that contains the interval I can be mapped to the markers of some k -marked chain of \mathcal{L} , but not that every maximal chain containing P can be handled simultaneously.

The statement of Lemma 7 needs to be modified. Instead, one must restrict to the family of maximal chains that come from Lemma 6. For corrected proof, see “On the number of P -free set systems for tree posets P ” by Balogh, Garcia and Wigal (arXiv:2405.09635), specifically Lemmas 2.8 and 2.9.

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