

# Erratum: Collapsible Biclaw-free Graphs

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There are two errors in the paper [3]. Firstly, Lemma 2.5 of [3] was incorrectly stated. The correct version of it is:

**Lemma 2.5** (Theorem 1 of [1]) If  $\kappa(G) \geq 2$ ,  $\delta(G) \geq 3$ , and if every edge of  $G$  lies in a 4-cycle, then  $G$  is collapsible.

Then Corollary 2.6 of [3] follows from this version of Lemma 2.5.

The other error was the statement of Conjecture 2.7. The intended statement of Conjecture 2.7 is:

**Conjecture 2.7** Every 2-connected biclaw-free graph  $G$  with  $\delta(G) \geq 4$  has a spanning eulerian subgraph  $H$  with maximum degree  $\Delta(H) \leq 4$ .

If  $G$  is a 2-connected bipartite biclaw-free graph  $G$  with  $\delta(G) \geq 4$ , then by Lemma 2.2 of [3], every edge of  $G$  lies in a 4-cycle, and then by Lemma 2.5 (the correct version),  $G$  is collapsible. It follows that  $G$  will have a spanning eulerian subgraph. Note that a hamiltonian cycle of  $G$  is a spanning eulerian subgraph of  $G$  with maximum degree 2. We consider it one possible way to attack Conjecture 1.1 of [3] (originally from [2]).

We apologize to the readers for our careless errors.

## References

- [1] H.-J. Lai, Graphs whose edges are in small cycles, *Disc. Math.*, 94 (1991) 11 - 22.
- [2] H. Li, Problem A15, Memorandum 1076, Univ. of Twente, Enschede (1992)119.
- [3] H.-J. Lai and X. Yao, Collapsible biclaw-free graphs, *Discrete Math*, 306 (2006) 2115-2117.

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