Corrigendum to "Convergence of curve shortening flow to translating soliton"

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CORRIGENDUM TO “CONVERGENCE OF CURVE SHORTENING FLOW TO TRANSLATING SOLITON”

By BEOMJUN CHOI, KYEONGSU CHOI, and PANAGIOTA DASKALOPOULOS

Abstract. Two bibliographical entries and one remark are added in proof to “Convergence of curve shortening flow to translating soliton”, by B. Choi, K. Choi, and P. Daskalopoulos [Amer. J. Math. 143 (2021), no. 4, 1043–1077].

1. The two bibliographical entries listed below should have been added in proof to the following article at the end of the references section: “Convergence of curve shortening flow to translating soliton”, by B. Choi, K. Choi, and P. Daskalopoulos [Amer. J. Math. 143 (2021), no. 4, 1043–1077]:

References. (added in proof):

[20] S. J. Altschuler and M. A. Grayson, Shortening space curves and flow through singularities, J. Differential Geom. 35 (1992), no. 2, 283–298.

[21] A. Polden, Evolving curves, Honours thesis, Australian National University, 1991.

2. The following remark should also have been added in proof after Remark 1.2:

Remark. (added in proof) Given a complete convex CSF solution $M_t$ defined in a slab region, and any sequence $t_i \to +\infty$, then the sequence of flows $M_{t_i}^j := M_{t-t_i} - x_{\text{tip}}(t_i)$, where $x_{\text{tip}}(t)$ denotes the tip of $M_t$, sub-converges to an eternal solution. By applying the Harnack inequality one can then show that the limiting eternal solution is a Grim Reaper. See Hamilton [17], Altschuler-Grayson [20], and Polden [21]. Our result shows that the limit is uniquely determined by the asymptotic slab.

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The authors and editors regret these omissions.

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