CORRIGENDA TO

“THE SINE-GORDON EQUATION IN THE SEMICLASSICAL LIMIT: CRITICAL BEHAVIOR NEAR A SEPARATRIX”

By

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Due to errors introduced in the production process, some figures were inaccurately rendered in our paper [1]. The corrected figures appear below.

Figure 1.6. The contour Σ_N of discontinuity for the sectionally analytic function $N(w)$. With the exception of the two components of $\mathbb{R}_+ \setminus I$ which are oriented left-to-right, the contour arcs are oriented with the regions labeled “+” on the left and with the regions labeled “-” on the right. The image of $\Sigma_N \setminus \mathbb{R}_+$ under $w \mapsto E(w)$ with E defined by (1.10) consists of the four straight line segments: (i) $\Re\{E\} = -\delta$, $0 < \Im\{E\} \leq -G(0)/4$, (ii) $\Re\{E\} = 0$, $0 < \Im\{E\} \leq -G(0)/4$, (iii) $\Re\{E\} = \delta$, $0 < \Im\{E\} \leq -G(0)/4$, and (iv) $|\Re\{E\}| \leq \delta$, $\Im\{E\} = -G(0)/4$. Here $\delta > 0$ is a sufficiently small number. The self-intersection point $w = -1$ is the critical point of E .

Figure 3.1. The contour of discontinuity for the sectionally analytic function $\mathbf{O}(w)$, with the lens halves $\Lambda^\pm$ indicated with shading. Arcs of the jump contour also present in the jump contour for $\mathbf{N}(w)$ (see Figure 1.6) retain that orientation, and the lens boundaries are oriented as indicated.

Figure 3.2. The contour of discontinuity for the sectionally analytic function $\mathbf{P}(w)$. Contour arcs also contained in the jump contour for $\mathbf{O}(w)$ (see Figures 1.6 and 3.1) retain that orientation, and otherwise (that is, in the interval $(b, 0)$) the orientation is as indicated.

REFERENCES

- [1] R. J. Buckingham and P. D. Miller, *The sine-Gordon equation in the semiclassical limit: Critical behavior near a separatrix* J. Anal. Math. **118** (2012), 397–492.

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