ERRATUM

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Erratum to: Shocks versus kinks in a discrete model of displacive phase transitions

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The expressions for $f_{\alpha,C}^{\pm}(k, V)$ on p. 327 that are used to derive the asymptotics (39) and (41) are not written correctly in the published article. The correct expressions are

$$f_{\alpha,C}^{\pm}(k, V) = i^{1+|\mathcal{N}_{\alpha}^{-}|-|\mathcal{N}_{\alpha}^{+}|} \frac{V \Pi_{\alpha}^{+} \Pi_{\alpha}^{-}}{\sqrt{c_{\alpha}^2 - V^2}} (0 \mp ik)^{-|\mathcal{N}_{\alpha}^{-}|} (0 \mp ik)^{-|\mathcal{N}_{\alpha}^{+}|} F_{\alpha}^{\pm}(k, V),$$

with the asymptotic behavior

$$f_{\alpha,C}^{\pm}(k, V) \approx i^{1+|\mathcal{N}_{\alpha}^{-}|-|\mathcal{N}_{\alpha}^{+}|} \frac{V \Pi_{\alpha}^{+} \Pi_{\alpha}^{-}}{\sqrt{c_{\alpha}^2 - V^2}} (0 \mp ik)^{-|\mathcal{N}_{\alpha}^{-}|} (0 \mp ik)^{-|\mathcal{N}_{\alpha}^{+}|}, \quad k \rightarrow \pm i\infty.$$

Elsewhere in the published article, there are some typographical errors. There is w missing in the left-hand side $w(\xi)$ of (48) on p. 328, and in (49) $i \neq j$ should be replaced by $k_{\gamma,j} \neq k$ for $P_{+}(k, V)$ and $k_{1,j} \neq k$ for $P_{-}(k, V)$, i.e.

$$P_{+}(k, V) = \frac{\prod_{k_{1,j} \in \mathcal{M}_1^{+}(V)} \left(1 - \frac{k}{k_{1,j}}\right)}{\prod_{\substack{k_{\gamma,j} \in \mathcal{M}_{\gamma}^{+}(V), \\ k_{\gamma,j} \neq k}} \left(1 - \frac{k}{k_{\gamma,j}}\right)}, \quad P_{-}(k, V) = \frac{\prod_{k_{\gamma,j} \in \mathcal{M}_{\gamma}^{-}(V)} \left(1 - \frac{k}{k_{\gamma,j}}\right)}{\prod_{\substack{k_{1,j} \in \mathcal{M}_1^{-}(V), \\ k_{1,j} \neq k}} \left(1 - \frac{k}{k_{1,j}}\right)}.$$

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On p. 331, in the second line of (62) (for $\xi > 0$) $e^{-ik_{\gamma,i}\xi}$ should be replaced by $e^{-ik_{1,i}\xi}$. On p. 332, in the second expression for I_+ , $1/\mathcal{R}(V)$ should be replaced by $\sqrt{L_0(V)}$. In the first expression of the equation immediately after it, γ should be replaced by 1, i.e.

$$\sum_{k_{1,i} \in \mathcal{M}_1^-(V)} k_{1,i} P_-(k_{1,i}, V) = -\mathcal{R}(V) \sqrt{L_0(V)}.$$

We also note that the first paragraph of 7.3 on p. 335 is not clearly written. As can be seen from the solution (48), only the roots from $\mathcal{N}_{\gamma}^+$ and $\mathcal{N}_1^-$ are the wave numbers of the non-decaying lattice waves propagating behind and ahead, respectively, of the moving front. The other roots contribute to the structure of these waves.