

**CORRECTIONS ON
THE DISTRIBUTION OF THE FREE PATH LENGTHS IN THE PERIODIC
TWO-DIMENSIONAL LORENTZ GAS IN THE SMALL-SCATTERER LIMIT**

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In Section 11 a factor of $|I|$ is missing in some of the error terms. These typos, corrected below, do not have any consequence on the main result of this section (Theorem 2).

Page 465, formula (11.1):

$$\dots + O\left(\lambda_+ \left(\frac{1}{\lambda_-} - \frac{1}{\lambda_+}\right)\right) = \dots + O\left(\frac{\lambda_+}{\lambda_-} - 1\right), \Rightarrow \dots + O\left(\lambda_+ \left(\frac{1}{\lambda_-} - \frac{1}{\lambda_+}\right)(\omega_1 - \omega_0)\right) = \dots + O\left(\left(\frac{\lambda_+}{\lambda_-} - 1\right)|I|\right),$$

Page 465, formula (11.2):

$$\dots + O\left(1 - \frac{\lambda_-}{\lambda_+}\right). \Rightarrow \dots + O\left(|I|\left(1 - \frac{\lambda_-}{\lambda_+}\right)\right).$$

Page 465, formula (11.3): $\dots + O\left(\frac{Q^+}{Q^-} - 1\right) \Rightarrow \dots + O\left(\left(\frac{Q^+}{Q^-} - 1\right)\varepsilon^{1/8}\right)$ (three times),

$$\dots + O(\varepsilon^{1/8}) \Rightarrow \dots + O(\varepsilon^{1/4}) \quad (\text{two times}), \quad \text{and } \dots + O_\delta(\varepsilon^{1/8-\delta}) \Rightarrow \dots + O_\delta(\varepsilon^{1/4-\delta}).$$

Page 466, formula (11.4): $\dots + O_\delta(\varepsilon^{1/8-\delta}) \Rightarrow \dots + O_\delta(\varepsilon^{1/4-\delta}).$