

Erratum

The Positivity of the Pressure in Thomas-Fermi Theory

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The conclusion of Lemma 2.4 should read:

then $\sum_{i=1}^k w_i f_i(\underline{z} + \lambda \underline{w})$ is increasing in λ for $\lambda \geq 0$ and $\underline{z}, \underline{w} \in \mathbb{R}_+^k$.

In the proof of Corollary 2.5 “... f_i is increasing” should be replaced by “... $\sum (z_2)_i f_i(\lambda z_2 + z_1)$ is increasing ...”. Lemma 2.4 was used only to prove Corollary 2.5, and the latter was used in the equation following (4.42).