Corrections for:

Density Potential Functional Theory in position and momentum space and its implementation using the Machine Learning library PyTorch

A Dissertation presented to the National University of Singapore

for the degree of Bachelor of Science (Hons.) in Physics

Ding Ruiqi

Supervisor: Prof. Berge Englert

March 2020

0.1 Equations (3.38), (4.11)

Change from

$$V_{\rm dd}^{\rm pos} := \frac{\delta E_{\rm dd}}{\delta \rho(\mathbf{r}_a)} = \frac{\mu_0}{4\pi \mathbf{r}^3} \int d\mathbf{r}_b \left[-3 \frac{(\boldsymbol{\mu} \cdot \mathbf{r})^2}{\mathbf{r}^2} + \boldsymbol{\mu}^2 \right]_{\mathbf{r} = \mathbf{r}_a - \mathbf{r}_b}$$
(1)

to

$$V_{\rm dd}^{\rm pos} := \frac{\delta E_{\rm dd}}{\delta \rho(\mathbf{r}_a)} = \frac{\mu_0}{4\pi} \int d\mathbf{r}_b \, \frac{1}{\mathbf{r}^3} \left[-3 \frac{(\boldsymbol{\mu} \cdot \mathbf{r})^2}{\mathbf{r}^2} + \boldsymbol{\mu}^2 \right]_{\mathbf{r} = \mathbf{r}_a - \mathbf{r}_b}$$
(2)