

Some questions on the exchange contribution to the effective potential of the Kohn–Sham theory

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The minus sign appearing in Eqs. 10, 17, and 19 should be a plus sign. The correct versions of Eqs. 10, 17, and 19 are as follows:

$$\frac{\delta F[\rho]}{\delta \rho(\mathbf{r})} + v(\mathbf{r}) = \mu, \quad (10)$$

$$\frac{\delta T_s[\rho]}{\delta \rho(\mathbf{r})} + \omega_{\text{eff}}(\mathbf{r}) = \mu, \quad (17)$$

$$\varphi_i(\mathbf{r}) \left\{ \frac{\delta T_s[\rho]}{\delta \rho(\mathbf{r})} + \omega_{\text{eff}}(\mathbf{r}) \right\} = \lambda_i \varphi_i(\mathbf{r}), \quad \forall i = 1, \dots, N \quad (19)$$

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