

Erratum to: Methods of continuous translation of the origin of the current density revisited

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In the original publication of the article, Eqs. (68), (84) and (85) are incorrect. The correct versions of these equations are given below

$$\begin{aligned} \mathbf{J}_p^{\mathbf{d} \times \mathbf{B}}(\mathbf{r}) = & -\frac{ne}{m_e} \int d\mathbf{x}_2, \dots, d\mathbf{x}_n \\ & \times \left[\mathbf{d} \times \mathbf{B} \cdot \Psi_a^{\mathbf{d} \times \mathbf{B}*}(\mathbf{r}, \mathbf{x}_2, \dots, \mathbf{x}_n) \hat{\mathbf{p}} \Psi_a^{(0)}(\mathbf{r}, \mathbf{x}_2, \dots, \mathbf{x}_n) \right. \\ & \left. + \Psi_a^{(0)*}(\mathbf{r}, \mathbf{x}_2, \dots, \mathbf{x}_n) \hat{\mathbf{p}} \mathbf{d} \times \mathbf{B} \cdot \Psi_a^{\mathbf{d} \times \mathbf{B}}(\mathbf{r}, \mathbf{x}_2, \dots, \mathbf{x}_n) \right] \end{aligned} \quad (68)$$

$$\begin{aligned} \hat{\zeta}_{\alpha\beta}^{\Delta} = & -\frac{ie^2}{8m_e\hbar} \sum_{i=1}^n \left\{ \epsilon_{\beta\gamma\delta} [r_\gamma, \hat{u}_{\delta\alpha}]_i + \epsilon_{\alpha\gamma\delta} [r_\gamma, \hat{u}_{\delta\beta}]_i \right\} \\ = & -\frac{ie^2}{8m_e\hbar} \left\{ \epsilon_{\beta\gamma\delta} [\hat{R}_\gamma, \hat{U}_{\delta\alpha}] + \epsilon_{\alpha\gamma\delta} [\hat{R}_\gamma, \hat{U}_{\delta\beta}]_i \right\} \end{aligned} \quad (84)$$

$$\begin{aligned} \hat{\sigma}_{\alpha\beta}^{\Delta I} = & \frac{ie^2}{2m_e\hbar} \epsilon_{\beta\gamma\delta} \sum_{i=1}^n [r_\gamma, \hat{I}_{i\delta\alpha}]_i \\ = & \frac{ie^2}{2m_e\hbar} \epsilon_{\beta\gamma\delta} [\hat{R}_\gamma, \hat{T}_{i\delta\alpha}] \end{aligned} \quad (85)$$

The online version of the original article can be found under doi:[10.1007/s00214-012-1222-y](https://doi.org/10.1007/s00214-012-1222-y).

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