



Correction to: A supplemental device to return escaping particles to a magnetic mirror reactor

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Correction

In the publication of this article [1], contained the following errors. In this Correction, the affected parts of the article are shown. The list of references is available in the original article. We omit pointing out obvious errata with respect to unnecessary periods and wrong symbols.

* In Eq.(2) $\left\{ \frac{m_e}{(1-\frac{v_0^2}{c^2})^{\frac{1}{2}}} + \int_{t_0}^t \frac{-q\mathbf{E}(t)\cdot\mathbf{v}(t,t_0)}{c^2} dt \right\} \frac{\partial\mathbf{v}(t,t_0)}{\partial t} + \mathbf{v}(t,t_0) \left(\frac{-q\mathbf{E}(t)\cdot\mathbf{v}(t,t_0)}{c^2} \right) = -q\mathbf{E}(t) - q\mathbf{v}(t,t_0) \times \mathbf{B}$

* In Eq.(6) $\frac{m_e}{\sqrt{1-\frac{v_0^2}{c^2}}} \equiv m$, $\frac{qB}{m_e} \sqrt{1-\frac{v_0^2}{c^2}} = \frac{qB}{m} \equiv \omega_c$, ($c'' = c^2$)

* In Eq.(9), $c(z_0C)$

$\hat{z}(v'_x B)$

* In Eq.(15) $\frac{qE}{m} \frac{-\omega_c}{\omega_c^2 - \omega^2}$

* In Eq.(17) $-\frac{1}{4} \frac{qE}{m\omega_c} \frac{z_0}{c} (\omega_c^2 t^2 + 3S^2)C$

* In Eq.(21) $\frac{-\omega_c}{\omega_c^2 - \omega^2} \left(\frac{-1}{4} \right)$

$\frac{\sin(2\omega_c - \omega)t}{2\omega_c - \omega} - \frac{2\sin\omega t}{\omega}$

* In Fig.9; n=1670

* Reference (14): J Plasma Phys. 44:47

This has now been included in this correction.

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Reference

1. Nagata, Sawada (2018) A supplemental device to return escaping particles to a magnetic mirror reactor. 5:1. <https://doi.org/10.1140/epjti/s40485-018-0042-4>