## Erratum: WKB electron wave functions in a tightly focused laser beam [Phys. Rev. D 103, 076011 (2021)]

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There are a couple of misprints in Eqs. (B2) and (B3) in the paper, as can be ascertained by comparing them with the correct ones written in terms of the electromagnetic fields in Ref. [1]. The correct equations read

$$\frac{d\mathbf{\Pi}_{e,\perp}}{dT} = -\frac{d\mathbf{A}_{\perp}}{dT} + \frac{\mathbf{\Pi}_{e,\perp}}{\mathbf{\Pi}_{e,+}} \cdot \mathbf{\nabla}_{\perp} \mathbf{A}_{\perp} + \frac{(\mathbf{\Pi}_{e} \times \mathbf{\mathcal{B}}_{z})_{\perp}}{\mathbf{\Pi}_{e,+}} - \frac{m^{2} + \mathbf{\Pi}_{e,\perp}^{2}}{2\Pi_{e,+}^{2}} \mathbf{\nabla}_{\perp} \mathbf{A}_{+}, \tag{1}$$

$$\frac{d\Pi_{e,+}}{dT} = -\frac{d\mathcal{A}_{+}}{dT} - \frac{\Pi_{e,\perp}}{\Pi_{e,+}} \cdot \frac{\partial \mathcal{A}_{\perp}}{\partial \phi} + \frac{m^2 + \Pi_{e,\perp}^2}{2\Pi_{e,+}^2} \frac{\partial \mathcal{A}_{+}}{\partial \phi}. \tag{2}$$

The misprints do not affect any of the results or conclusions of the paper. I would like to thank Cesim Dumlu for drawing my attention to these misprints.

[1] A. Di Piazza, Phys. Rev. Lett. 113, 040402 (2014).

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