



Article scientifique

Article

2023

Published version

Open Access

This is the published version of the publication, made available in accordance with the publisher's policy.

---

Erratum: Optimal laser-pulse energy partitioning for air ionization [Phys. Rev. A 94 , 033824 (2016)]

---

Schubert, Elise; Brisset, Jean-Gabriel; Matthews, Mary; Courjaud, Antoine; Kasparian, Jérôme; Wolf, Jean-Pierre

#### How to cite

SCHUBERT, Elise et al. Erratum: Optimal laser-pulse energy partitioning for air ionization [Phys. Rev. A 94 , 033824 (2016)]. In: Physical review, A, 2023, vol. 107, n° 1, p. 019904(E). doi: 10.1103/PhysRevA.107.019904

This publication URL: <https://archive-ouverte.unige.ch/unige:166312>

Publication DOI: [10.1103/PhysRevA.107.019904](https://doi.org/10.1103/PhysRevA.107.019904)

**Erratum: Optimal laser-pulse energy partitioning for air ionization [Phys. Rev. A **94**, 033824 (2016)]**

Elise Schubert, Jean-Gabriel Brisset, Mary Matthews, Antoine Courjaud, Jérôme Kasparian <sup>\*</sup> and Jean-Pierre Wolf



(Received 20 December 2022; published 17 January 2023)

DOI: [10.1103/PhysRevA.107.019904](https://doi.org/10.1103/PhysRevA.107.019904)

In this Erratum we clarify two typos.

(i) In Table I, the unit of the electron-ion recombination coefficient  $\beta_{ep}$  should read  $1.138 \times 10^{-11} \text{ K}^{0.7} \text{ m}^3/\text{s}$ .

(ii) Equation (12) should read

$$\begin{aligned} \frac{dT_e}{dt} = & \frac{2J_L}{3N_e k_B} + \frac{2q_e \mu_e E^2}{3k_B} - (T_e - T_v)v_{ev} - 2(T_e - T_g)\frac{m_e v_c}{M_{\text{air}}} \\ & + [R_{\text{ion}}U_e + R_{pd}U_{e_{\text{O}_2^-}} - (R_{\text{col}} + R_{\text{av}})U_{\text{O}_2}]\frac{2}{3k_B N_e} - \left[ \frac{R_{\text{ep}}}{N_e} + (\eta_2 + \eta_3) \right] T_e - \frac{2N_{\text{Tot}}}{3k_B} R_{\text{imp}}. \end{aligned}$$

These changes do not affect the conclusions obtained in our original publication, since the calculations were performed with the correct formula.

We thank Erin Thornton for spotting these typos.

<sup>\*</sup>jerome.kasparian@unige.ch