

Erratum: Quantum theory of photon emission during strong-laser-field-induced ionization. II. Continuum dynamics [Phys. Rev. A **114**, 013114 (2026)]

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There is a sign error in Eq. (24) of the above-mentioned paper. The correct result is $\int d\mathbf{q} \langle \mathbf{p} | \mathbf{r} | \mathbf{q} \rangle f(\mathbf{q}) = [idf(\mathbf{q})/d\mathbf{q}]_{\mathbf{q}=\mathbf{p}}$. This flips the sign of $\mathbf{T}_p^{(1)}(n)$ and, consequently, the sign of the right-hand sides of Eqs. (25), (28)–(31), (A6), and (A8). This change of sign causes destructive interference, in place of constructive interference as before, of the bound-continuum T -matrix element from the previous work [1] and the continuum-continuum T -matrix element from our original paper. Therefore, in the Abstract of our paper the word “constructively” should be replaced by “destructively,” and in the Conclusions the text “but the two contributions interfere destructively, contrary to our findings” should be omitted. In Sec. III, “Numerical results,” the curves denoted by “0+1” and the corresponding comments should be changed. More precisely, on page 4, in the second paragraph of Sec. IIIA, the text “The rate obtained as the coherent sum of all contributions is higher than its zeroth-order and continuum-continuum contributions, but lower than the individual rates ...” should be replaced by the text “The rate obtained as the coherent sum of all contributions is lower than its zeroth-order and continuum-continuum contributions and, more notably, lower than the individual rates” On page 5, in the fourth paragraph of Sec. IIIA, the text “For higher energies the two contributions are comparable and their sum exhibits a maximum near 10 eV. This shows that both the zeroth-order and the continuum contributions have to be taken into account and that their amplitudes interfere constructively.” should be replaced by the text “For higher energies the two contributions are comparable and they interfere destructively.” On page 6, in the first paragraph of Sec. IIIB, the text “The rate obtained using the coherent sum of all contributions is higher than the zeroth-order rate. Hence, again, including the continuum correction is imperative.” should be replaced by the text “The rate obtained using the coherent sum of all contributions is lower than the zeroth-order rate.” On page 6, in Sec. IIIC, the word “constructively” should be replaced by the word “destructively.” The corrected figures are presented in Figs. 1–5.

We are greatly indebted to Ridha Horchani for noticing the wrong sign in Eq. (24) of our original paper.

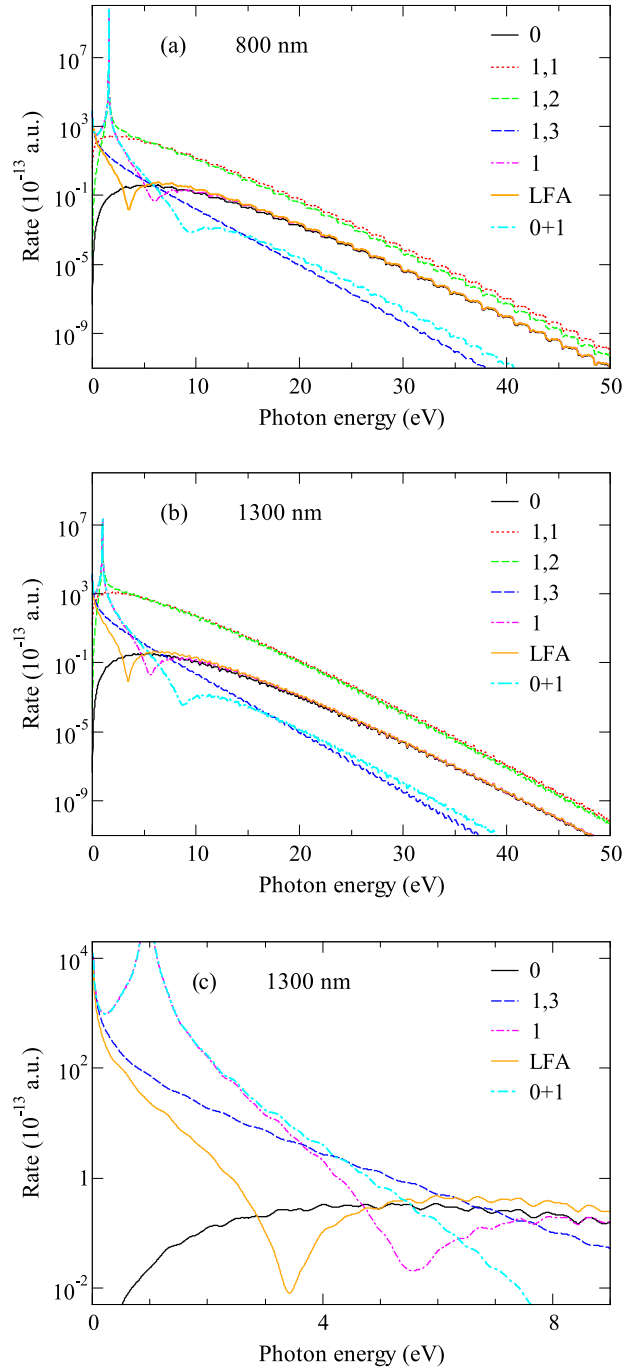


FIG. 1. Corrected panels (a)–(c) of Fig. 2.

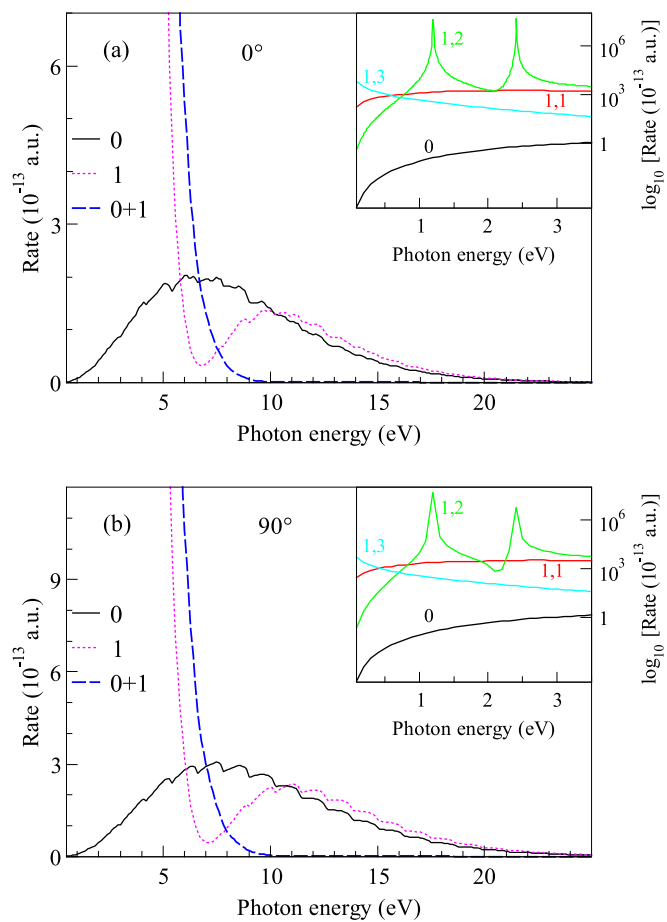


FIG. 2. Corrected Fig. 3.

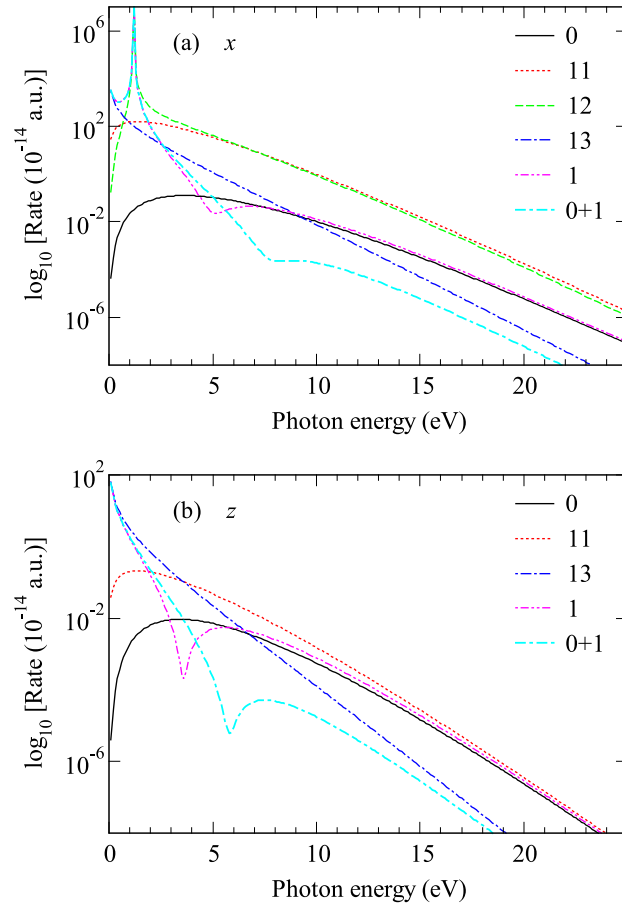


FIG. 3. Corrected Fig. 4.

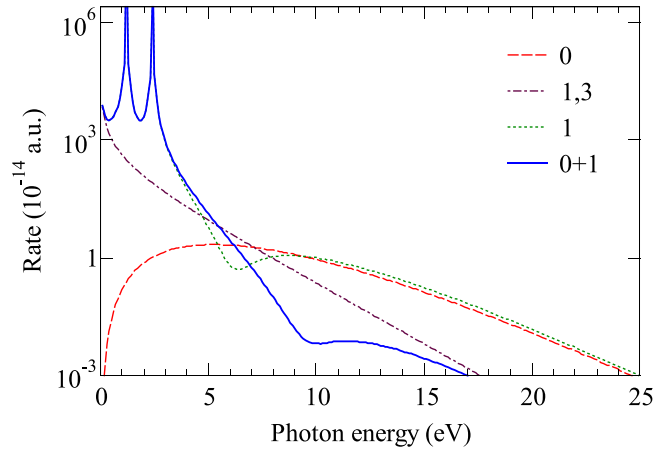


FIG. 4. Corrected Fig. 5.

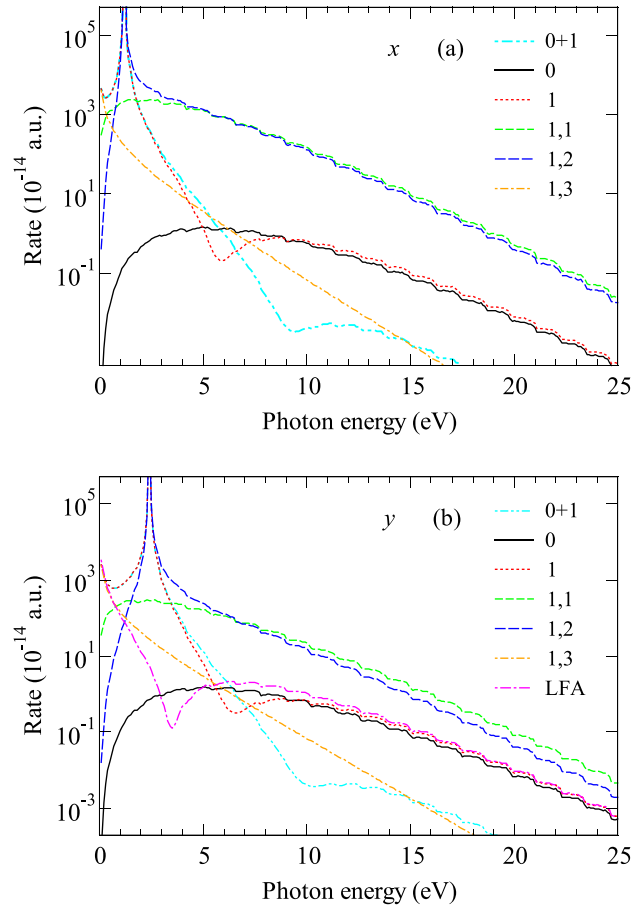


FIG. 5. Corrected Fig. 6.

- [1] D. B. Milošević, Quantum theory of photon emission during strong-laser-field-induced ionization, *Phys. Rev. A* **108**, 033110 (2023).