

Corrigendum to "Numerical studies of atomic three-step photoionization processes with non-monochromatic laser fields"

Xiaoyong Lu(卢肖勇), Lide Wang(王立德), Yunfei Li(李云飞)

Citation: Chin. Phys. B, 2024, 33 (**6**): 069901. DOI: 10.1088/1674-1056/ad4d66
Journal homepage: http://cpb.iphy.ac.cn; http://iopscience.iop.org/cpb

What follows is a list of articles you may be interested in

Corrigendum to "Absolute partial and total ionization cross sections of carbon monoxide with electron collision from 350eV to 8000eV"

Taj Wali Khan, Weizhe Huang(黄伟哲), Enliang Wang(王恩亮), Xu Shan(单旭), and Xiangjun Chen(陈向军)
Chin. Phys. B, 2024, 33 (**5**): 059901. DOI: 10.1088/1674-1056/ad3efc

Corrigendum to “Atomic-scale electromagnetic theory bridging optics in microscopic world and macroscopic world”

Zhi-Yuan Li(李志远) and Jianfeng Chen(陈剑锋)
Chin. Phys. B, 2024, 33 (**2**): 029901. DOI: 10.1088/1674-1056/ad19d8

Corrigendum to “Electromagnetically induced transparency via localized surface plasmon mode-assisted hybrid cavity QED”

Xiaomiao Li(李晓苗), Famin Liu(刘发民), Zigeng Li(李子更), Hongyan Zhu(朱虹燕), Fan Wang(王帆), and Xiaolan Zhong(钟晓岚)
Chin. Phys. B, 2023, 32 (**12**): 129901. DOI: 10.1088/1674-1056/ad0bf7

Corrigendum to “The transition from conservative to dissipative flows in class-B laser model with fold-Hopf bifurcation andcoexisting attractors”

Yue Li(李月), Zengqiang Chen(陈增强), Mingfeng Yuan(袁明峰), and Shijian Cang(仓诗建)
Chin. Phys. B, 2023, 32 (**6**): 069902. DOI: 10.1088/1674-1056/acd8a6

Corrigendum to “Peptide backbone-copper ring structure: A molecular insight into copper-induced amyloid toxicity”

Jing Wang(王静), Xiankai Jiang(姜先凯), Xiurong Su(苏秀榕), Xingfei Zhou(周星飞), Yu Wang(王宇), Geng Wang(王耿), Heping Geng(耿和平), Zheng Jiang(姜政), Fang Huang(黄方), Gang Chen(陈刚), Chunlei Wang(王春雷), and Haiping Fang(方海平)
Chin. Phys. B, 2023, 32 (**6**): 069901. DOI: 10.1088/1674-1056/acd329

CORRIGENDUM

Corrigendum to "Numerical studies of atomic three-step photoionization processes with non-monochromatic laser fields"

Xiaoyong Lu(卢肖勇)†, Lide Wang(王立德), and Yunfei Li(李云飞)

Science and Technology on Particle Transport and Separation Laboratory, Tianjin 300180, *China*

(Received 20 May 2024; accepted manuscript online 20 May 2024)

The Eq. (6) about the time correlation function of the chaotic field model is corrected, along with the corresponding statement. The enlargement factors of $\rho_{33,\mathrm{B}}$ and $\rho_{\mathrm{ion,B}}$ in the legends of Figs. 2(b), 2(c) and 2(d) are corrected. These corrections do not affect the conclusions of the work [*Chin. Phys. B* **31** 063203 (2022)].

Keywords: corrigendum, non-monochromatic laser field, chaotic field model

PACS: 99.10.-x, 32.80.–t, 32.80.Rm, 42.50.Hz **DOI:** 10.1088/1674-1056/ad4d66

In the article,[1] there are two mistakes about the chaotic field model. The first is the exponential term of Eq. (6) showing the α-order time correlation function $G(\alpha,\alpha)(t,t')$ of the chaotic field model. According to Eq. (3) of Ref. [2], the revised Eq. (6) should be

$$G^{(\alpha,\alpha)}(t,t') = \left\langle \left[E^*(t)\cdot E(t')\right]^{\alpha} \right\rangle = I_0^{\alpha} \exp\left(-\alpha b\left|t-t'\right|\right).$$

The second is about the laser frequency spectrum of the chaotic field model. The original statement is "The laser spectrum has a Lorentzian shape when $\alpha = 1$".[1] The revised statement is "The laser spectrum has a Lorentzian shape according to Eq. (6)", which means that the laser frequency spectrum of the chaotic field model is always Lorentzian regardless of the order of the time correlation function.

During the typesetting of the article,[1] there are some typos about the enlargement factors of $\rho_{33,\mathrm{B}}$ and $\rho_{\mathrm{ion,B}}$ in the legends of Figs. 2(b), 2(c) and 2(d). The correct value of these enlargement factors is 10. The revised Fig. 2 is given below.

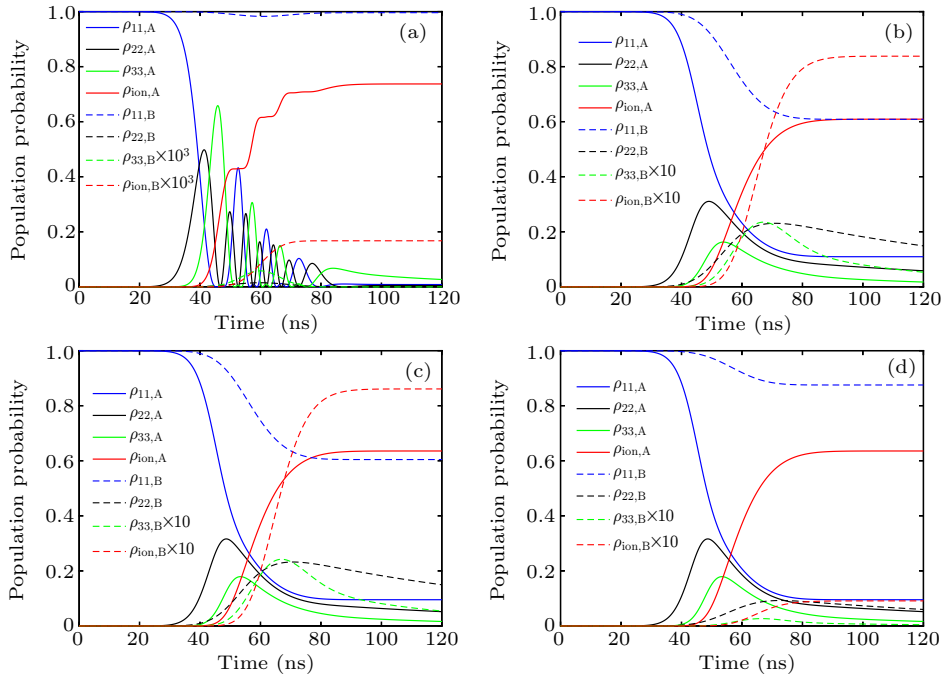


Fig. 2. Population probabilities *versus* time in several bandwidth models. (a) Monochromatic fields, (b) chaotic field model, (c) de-correlation model, (d) phase diffusion model.

References

[1] Lu X Y, Wang L D and Yi Y F 2022 *Chin. Phys. B* **31** 063203
[2] Zoller P 1979 *Phys. Rev. A* **19** 1151

†Corresponding author. E-mail: lu-xy15@tsinghua.org.cn

© 2024 Chinese Physical Society and IOP Publishing Ltd