Corrigendum
Three-type Fano interference controlled by the phase transition of Eu$^{3+}$/Pr$^{3+}$: YPO$_4$ (2020 New J. Phys. 22 093008)
Fan, Huanrong; Raza, Faizan; Ahmed, Irfan; Li, Kangkang; Ullah, Habib; Zhang, Yanpeng

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Corrigendum: Three-type Fano interference controlled by the phase transition of Eu$^{3+}$/Pr$^{3+}$: YPO$_4$ (2020 New J. Phys. 22 093008)

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Keywords: dressed spontaneous parametric four-wave mixing Fano, dressed multi-order fluorescence Fano, hybrid Fano interference, phase transition

The captions for figures 3 and 4 in [Fan et al 2020 New J. Phys. 22 093008] contain some mistakes which are corrected in this corrigendum.

We found that there are some mistakes in captions for figures 3 and 4 in [1]. The correct captions are: The numerical results and conclusions in [1] remain unchanged.

![Diagram](https://example.com/diagram.png)

Figure 3. (a1)–(a5) Shows the energy level for pure enhancement, suppression + enhancement, pure suppression, enhancement + suppression, and pure enhancement, respectively. (b1)–(b5) and (c1)–(c5) show the excitation spectrums of Stokes/anti-Stokes and FL, respectively. The excitation spectra are obtained by scanning wavelengths from 580 nm to 610 nm with different $\Delta$D corresponding to energy levels defined in (a1)–(a5). The dash curves of the profile (baseline) in (b) and (c) represents the SP-FWM and MFL signal without dressing, respectively.
Figure 4. (a) and (b) Theoretical results of excited spectrum of SP-FWM (low $\Gamma$) and MFL (high $\Gamma$), respectively, when non-linear phase is set at 0 ($a_1/b_1$), $\pi/2$ ($a_2/b_2$), $\pi$ ($a_3/b_3$), $3\pi/2$ ($a_4/b_4$) and $2\pi$ ($a_5/b_5$). (c1) and (c2) theoretical results of three-dimensional anti-cross corresponding to 4(a) and (b), respectively. 4(d1) and (d2) theoretical results of three-dimensional anti-cross corresponding to figures 3(b) and (c), respectively. The dash curves of profile in 4(a) and (b) represent the SP-FWM and MFL signal without dressing, respectively.

Data availability statement

All data that support the findings of this study are included within the article (and any supplementary files).

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References

[1] Fan H R, Raza F, Ahmed I, Li K K, Ullah H and Zhang Y P 2020 Three-type Fano interference controlled by the phase transition of Eu$^{3+}$/Pr$^{3+}$: YPO$_4$, New J. Phys. 22 093008