Erratum: Cobalt-Dimer Nitrides: A Potential Novel Family of High-Temperature Superconductors [Chin. Phys. Lett. 39, 097401 (2022)]

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We note that, in our recently published article,[1] Figs. 1 and 2 should be as follows:

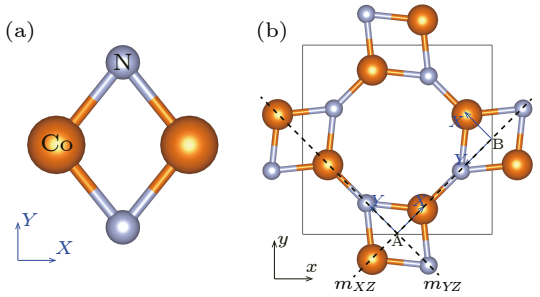

Fig. 1. (a) Structure of Co_2N_2 dimer. (b) Structure of Co_2N_2 layer. The dashed black lines show the mirror symmetries. X, Y coordinates are defined according to the direction of the Co–Co bond, and x, y are the global coordinates in the conventional crystal structure.

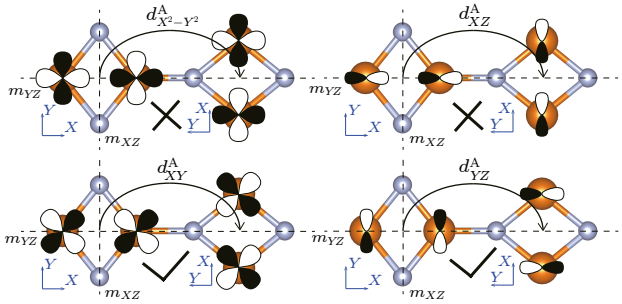

Fig. 2. Sketch of intra-orbital NN hopping between anti-bonding molecular orbitals of Co_2N_2 dimers. The intra-anti-bonding-orbital hoppings between the $d^{A}_{X^2-Y^2}/d^{A}_{XZ}$ molecular orbitals of two NN dimers are forbidden due to the opposite mirror symmetry eigenvalues while those between the d^{A}_{XY}/d^{A}_{YZ} molecular orbitals are allowed.

Specifically, the subscripts XZ and YZ in mirror symmetries m_{XZ} and m_{YZ} in Figs. 1 and 2 should be in upper case, instead of xz and yz, as they are defined in the local X–Y coordinate system.

References

[1] Gu Y H, Jiang K, Wu X X, and Hu J P 2022 *Chin. Phys. Lett.* **39** 097401

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