

Erratum: Electronic structure of AV_3Sb_5 kagome metals [Phys. Rev. B **111, 235114 (2025)]**

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(Received 8 December 2025; published 30 December 2025)

 DOI: [10.1103/g4bv-kdzb](https://doi.org/10.1103/g4bv-kdzb)

In Eq. (8) of the originally published manuscript, a prefactor of 2 was inadvertently omitted before the matrix. The correct form of Eq. (8) is

$$H^{AK}(\mathbf{k}) = 2 \begin{bmatrix} 0 & -\mathbf{c}(k_3) & \mathbf{c}(k_2) \\ \mathbf{c}(k_3) & 0 & -\mathbf{c}(k_1) \\ -\mathbf{c}(k_2) & \mathbf{c}(k_1) & 0 \end{bmatrix}. \quad (8)$$

Additionally, in Tables I and II, the signs of the hopping parameters t_{23} (for both the first and second nearest neighbors) are incorrect. The signs should be flipped. While the orbital basis indices (2 and 3) were correctly defined in the text, the associated sign change required for the table values was missed during manuscript preparation. The corrected tables are as follows.

These errors are typographical in nature; the numerical calculations performed in the paper utilized the correct values. Consequently, the results and conclusions of the paper remain unaffected.

 TABLE I. Parameters of the band structure calculated by extended Slater-Koster method for $\{1, 2, 3\} = \{d_{h_1}, d_{h_2}, d_{h_3}\}$ orbitals.

(eV)	t^{11}	t^{22}	t^{33}	t^{12}	t^{23}	t^{31}	μ_1	μ_2	μ_3
t_{1st}	-0.05	-0.30	-0.05	-0.48	0.38	-0.35	0.85	-0.084	-0.75
t_{2nd}	0.10	0.20	-0.25	0.00	-0.12	0.05			

 TABLE II. Values of Slater-Koster functions with parameters $t_{1st}^\sigma = -0.189$, $t_{1st}^\pi = 0.27$, $t_{1st}^\delta = 0.31$ and $t_{2nd}^\sigma = 0.150$, $t_{2nd}^\pi = -0.079$, $t_{2nd}^\delta = 0.060$.

(eV)	f^{11}	f^{22}	f^{33}	f^{12}	f^{23}	f^{31}	μ_1	μ_2	μ_3
f_{1st}	0.05	-0.13	0.23	-0.45	0.22	-0.34	0.85	-0.084	-0.75
f_{2nd}	0.14	0.21	-0.23	0.02	-0.01	0.08			