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**CORRIGENDUM****Corrigendum: *Ab initio* calculation of thermoelectric properties in 3d ferromagnets based on spin-dependent electron–phonon coupling (2023 *New J. Phys.* **25** 043022)****OPEN ACCESS****RECEIVED**
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citation and DOI.**Xue Ma¹** , **Marco Di Gennaro²** , **Matteo Giantomassi³** , **Matthieu J Verstraete^{2,*}**  and **Bin Xu^{1,*}** ¹ Jiangsu Key Laboratory of Frontier Material Physics and Devices, School of Physical Science and Technology, Soochow University, Suzhou 215006, People's Republic of China² Nanomat, Q-Mat, CESAM, and European Theoretical Spectroscopy Facility, Université de Liège, B-4000 Liège, Belgium³ UCLouvain, Institute of Condensed Matter and Nanosciences (IMCN), Chemin des Étoiles 8, B-1348 Louvain-la-Neuve, Belgium

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In figures 2(b) and S8(b), due to an error in the coordinates of the two X points and the second Γ point in the q path, the calculated and experimental phonon dispersion for Ni were inconsistent in the segment of X-K- Γ . The correct path should be $\Gamma(0.0, 0.0, 0.0)$ -X(0.5, 0.0, 0.5)-W(0.5, 0.25, 0.75)-X(0.5, 0.5, 1.0)-K(0.375, 0.375, 0.75)- $\Gamma(0.0, 0.0, 0.0)$ -L(0.5, 0.5, 0.5). To adopt the same path, figures 1 and 3 in the main text and figures S2, S3, S6, S7, S9 and S10 in the supplementary information are also updated.

The correct figures are shown below.

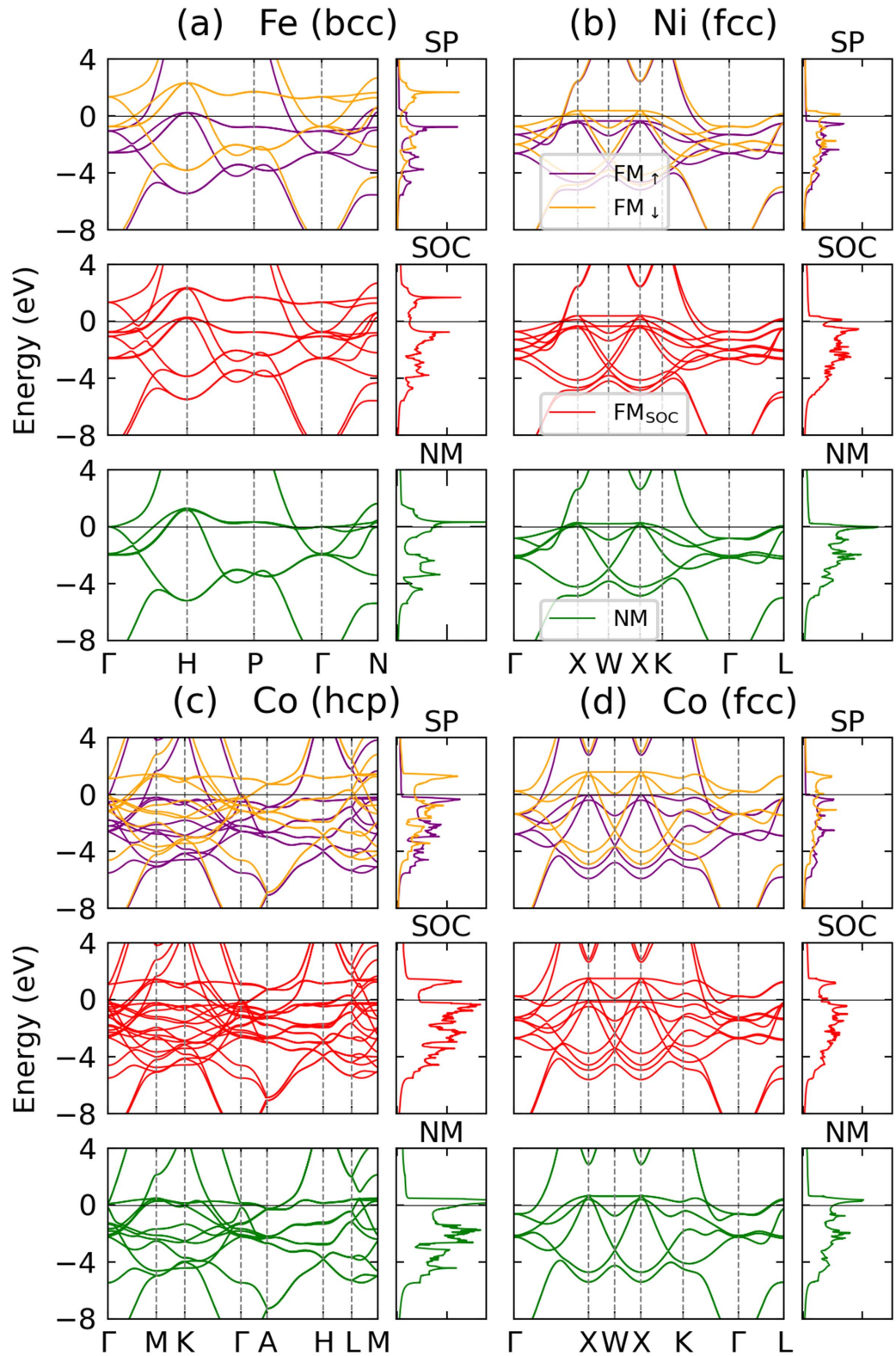
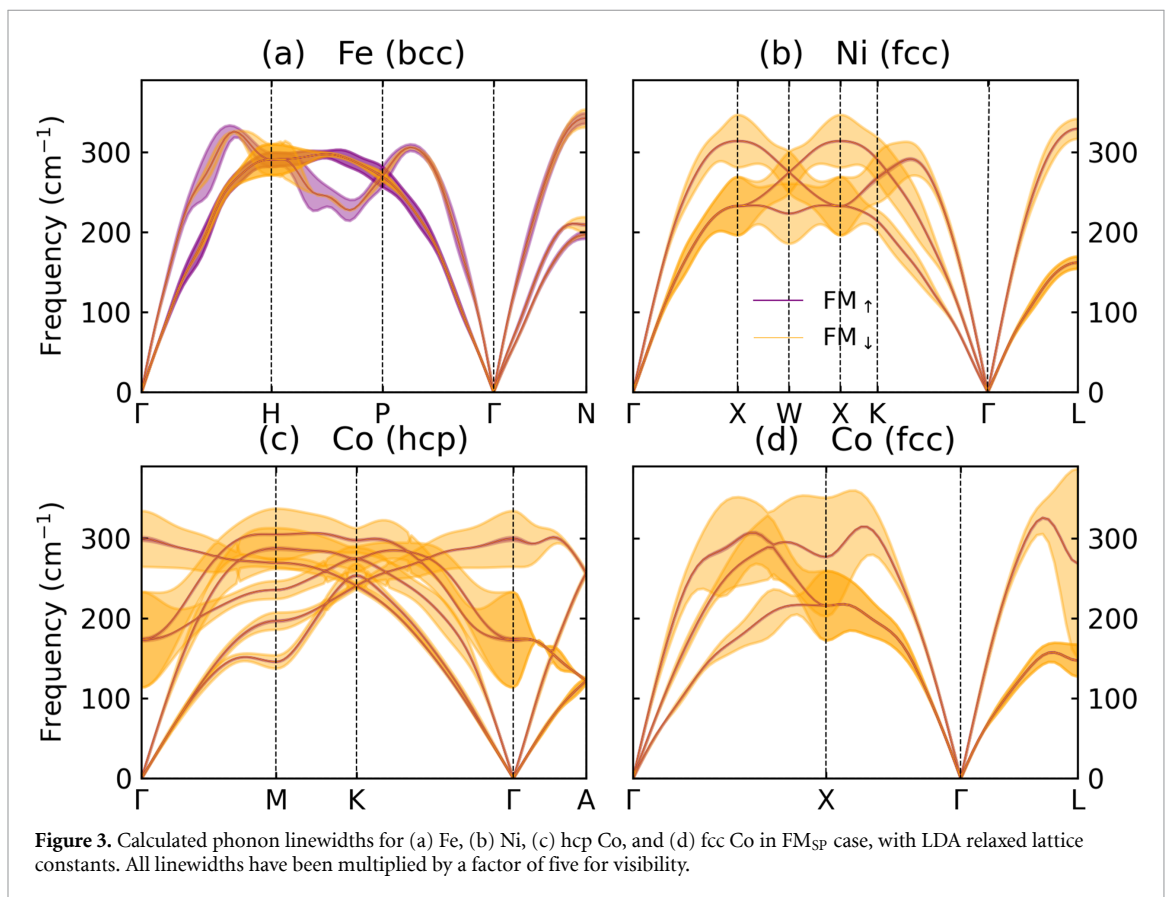
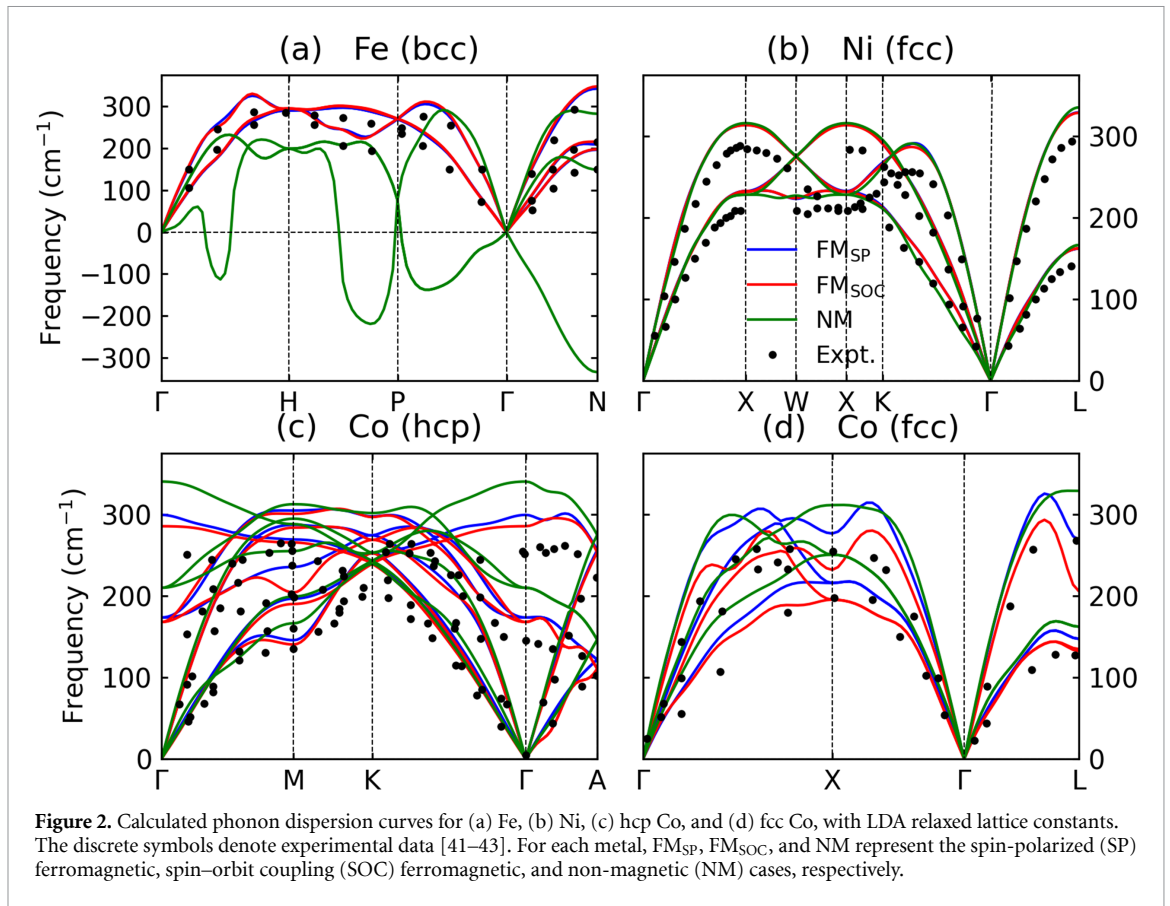
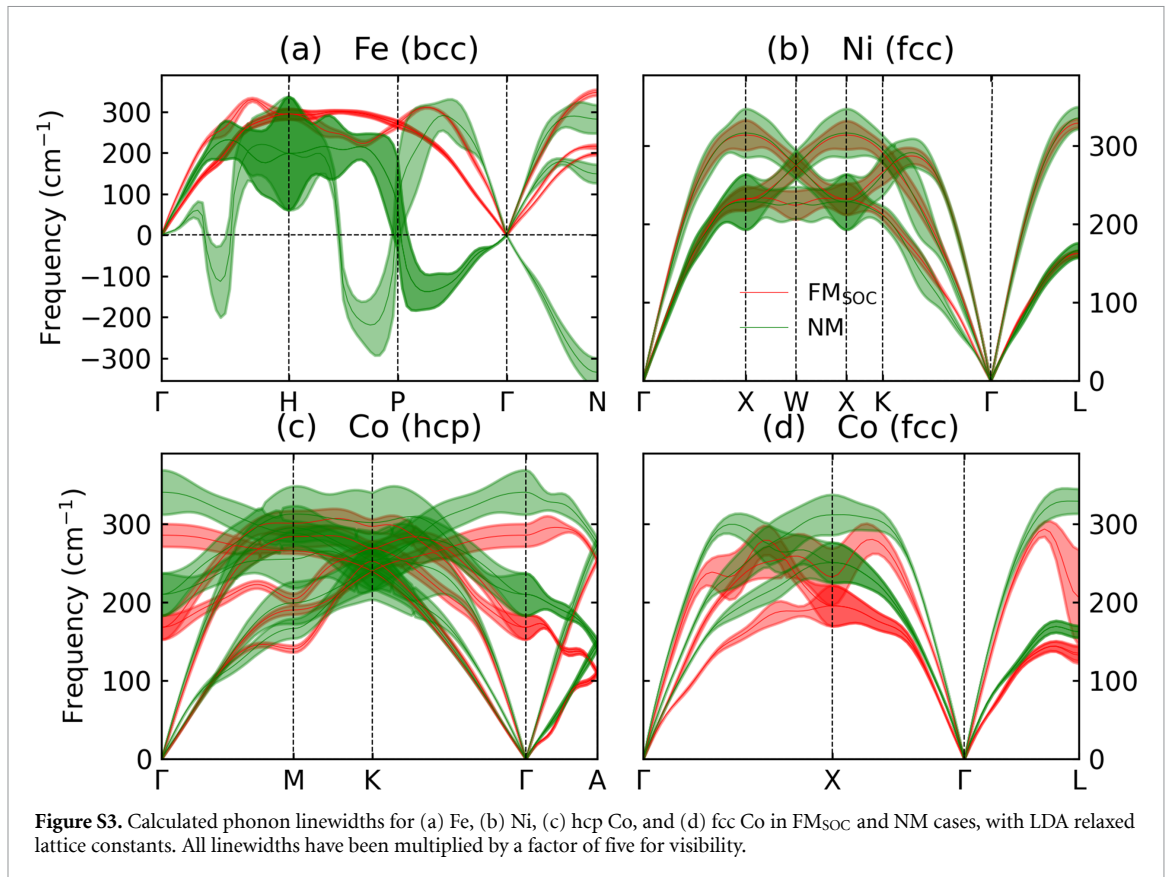
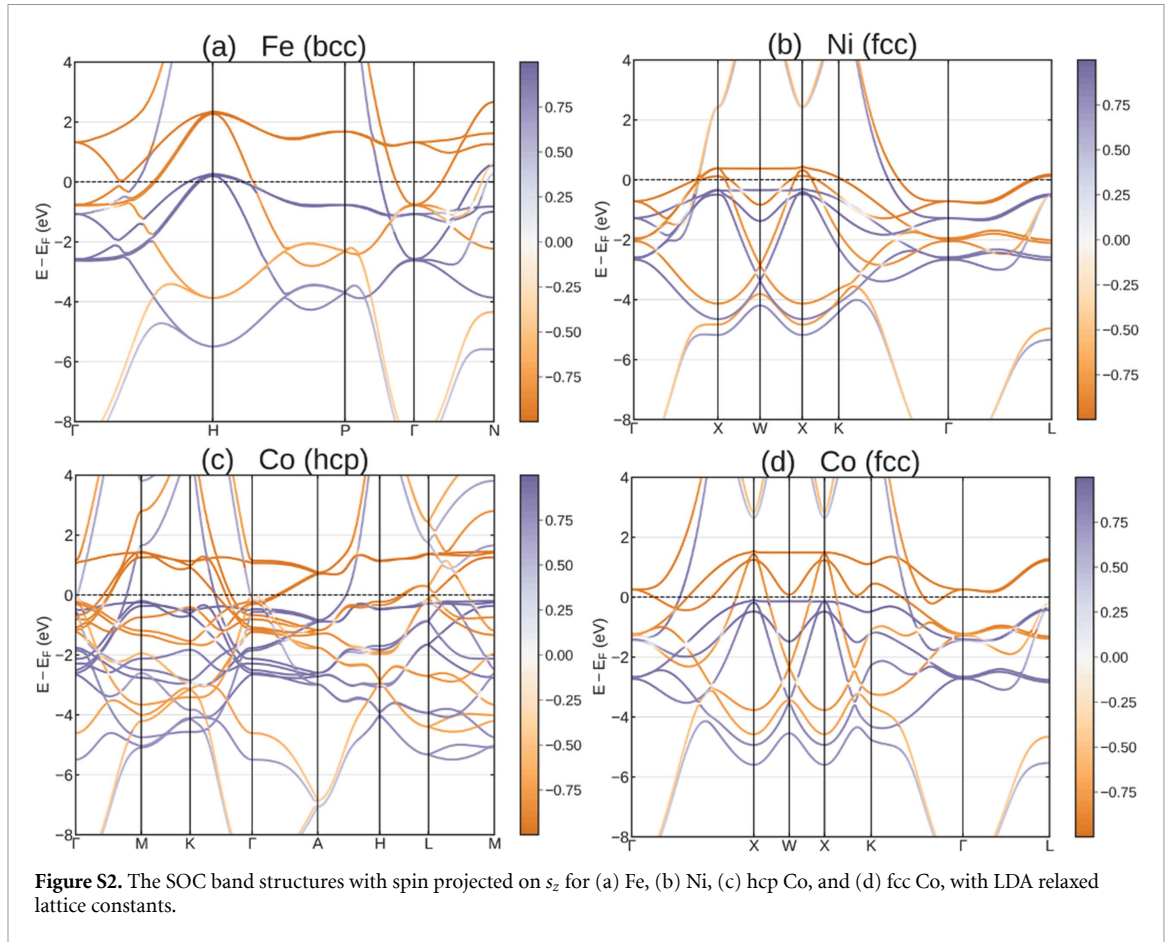


Figure 1. Calculated band structures and density of states (DOS) for (a) Fe, (b) Ni, (c) hcp Co, and (d) fcc Co, with LDA relaxed lattice constants. Top to bottom panels are: spin polarized, spin-orbit coupling, and non-magnetic, resp. The Fermi level is set as $E = 0$.





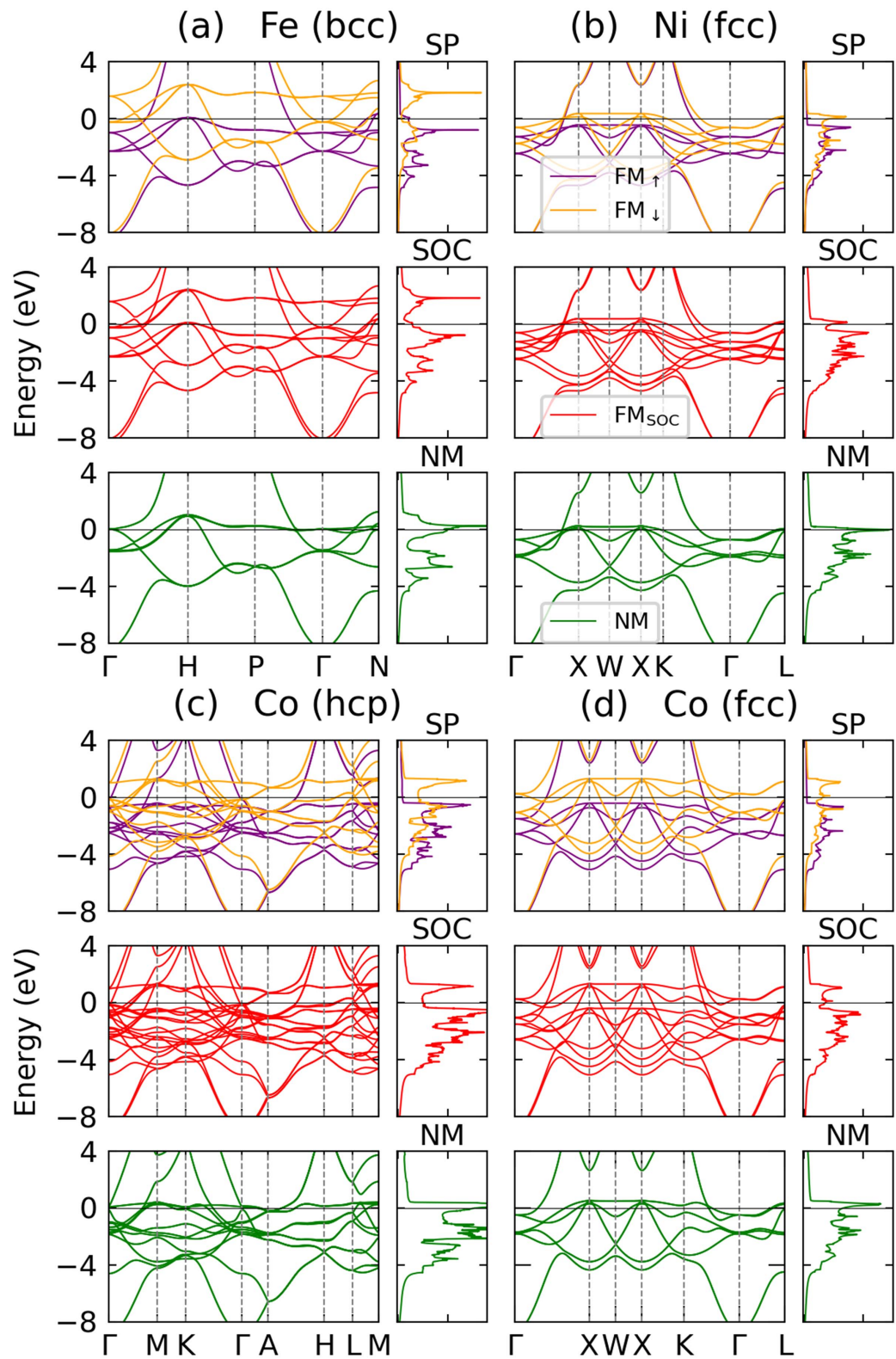
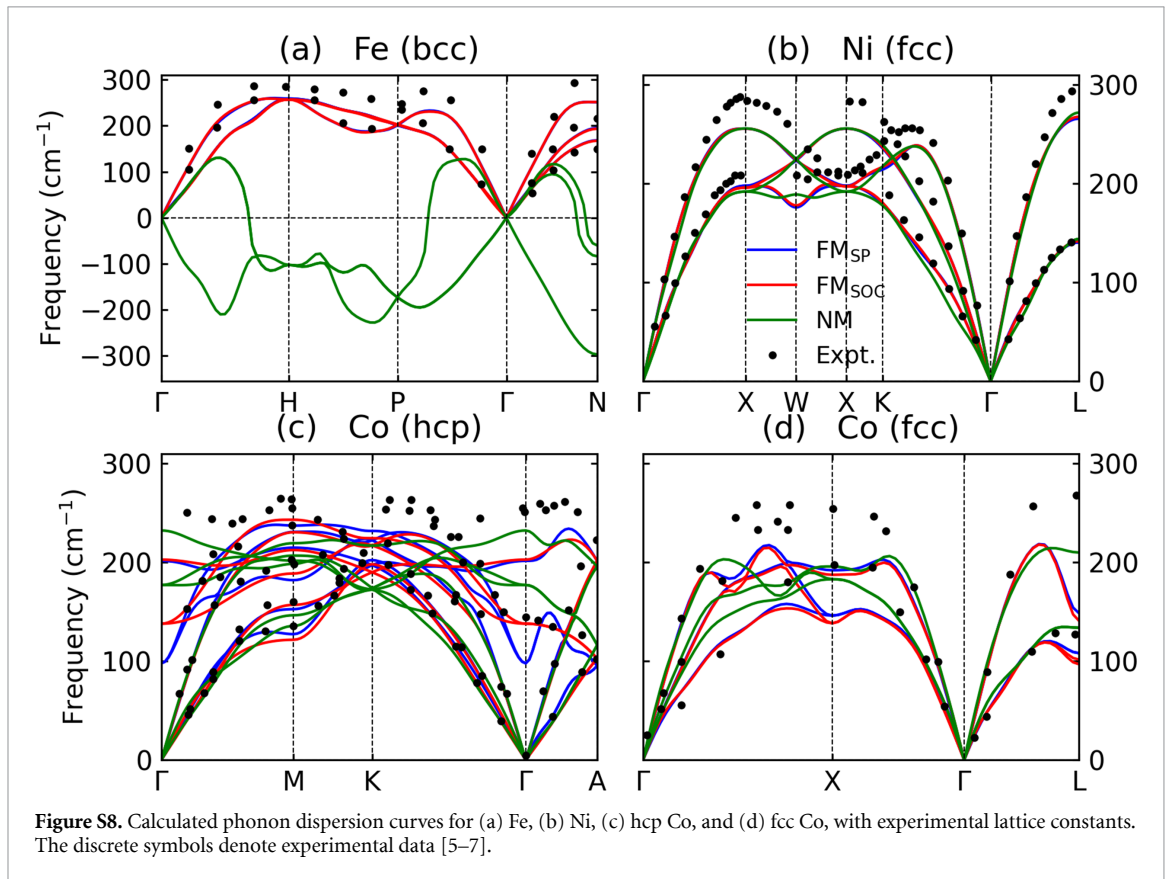
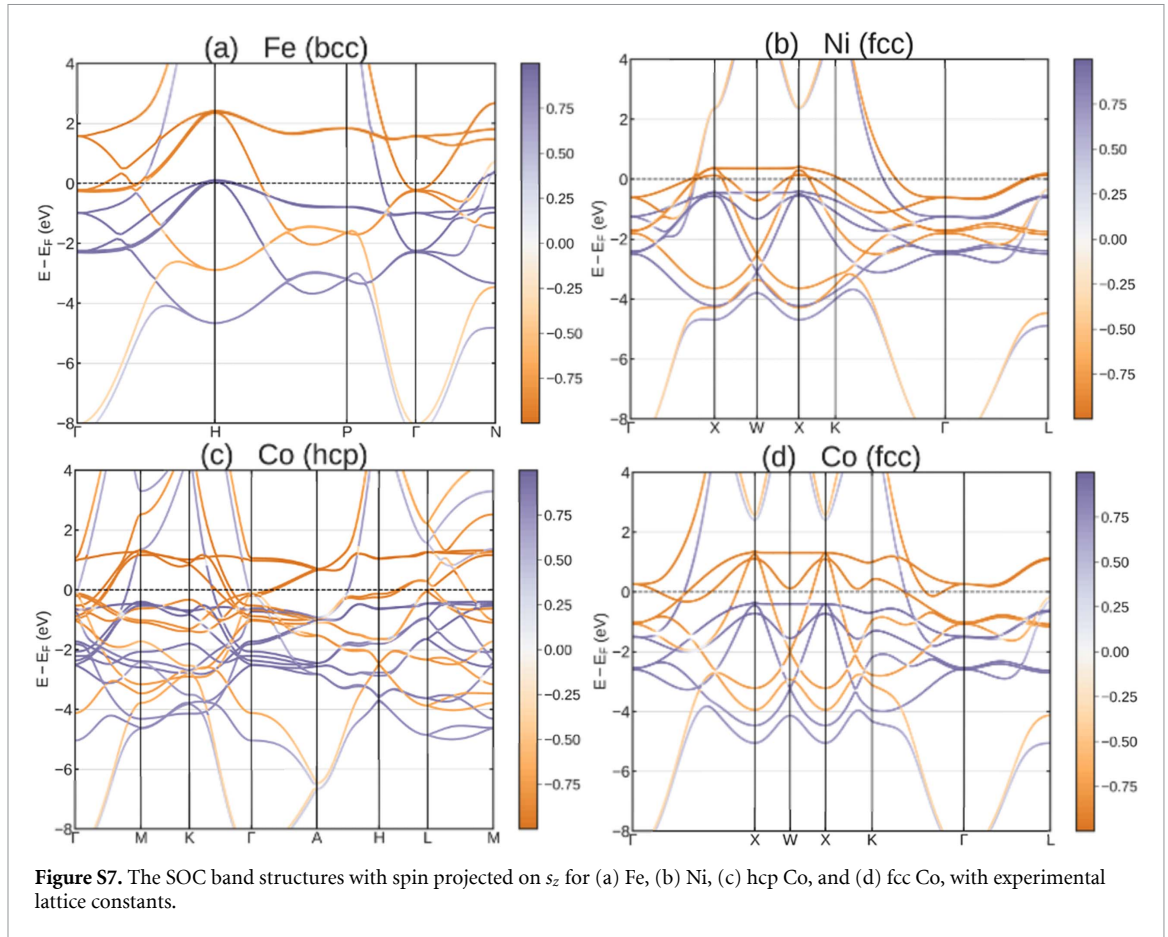
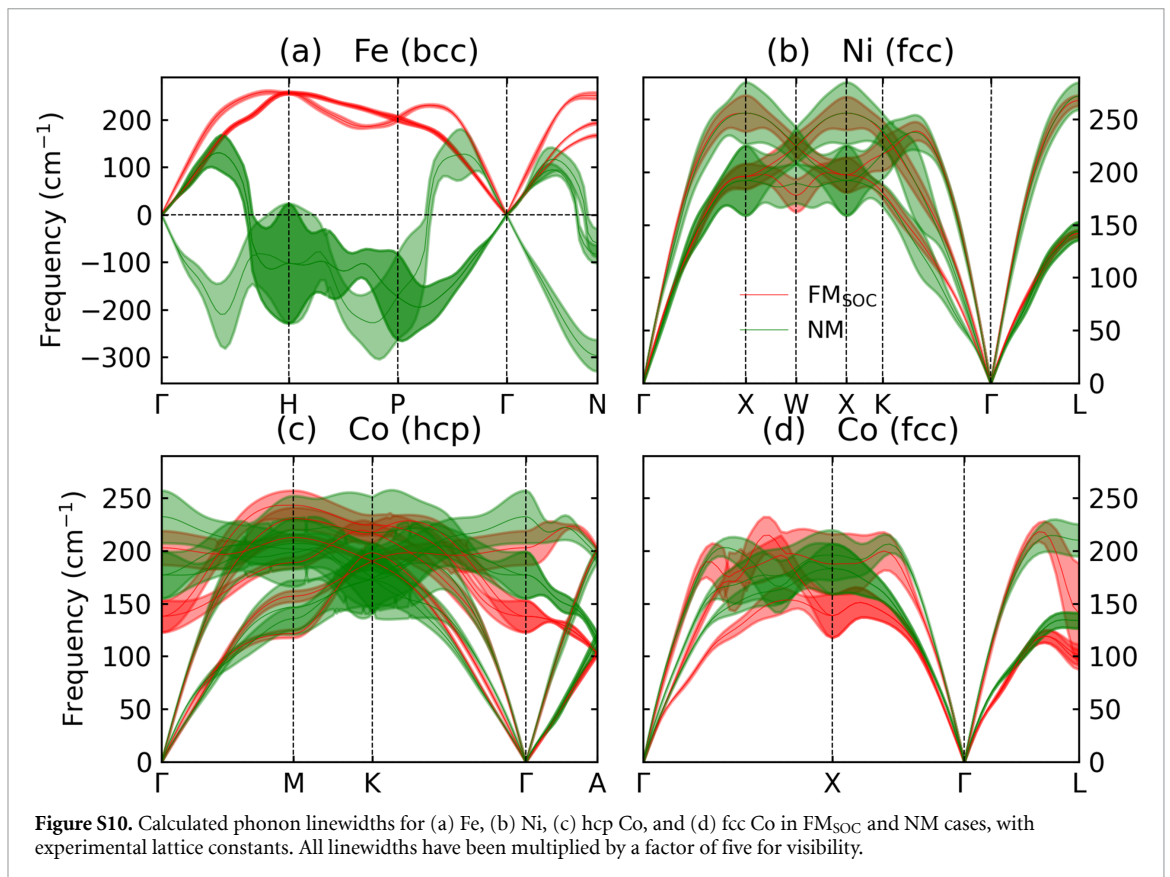
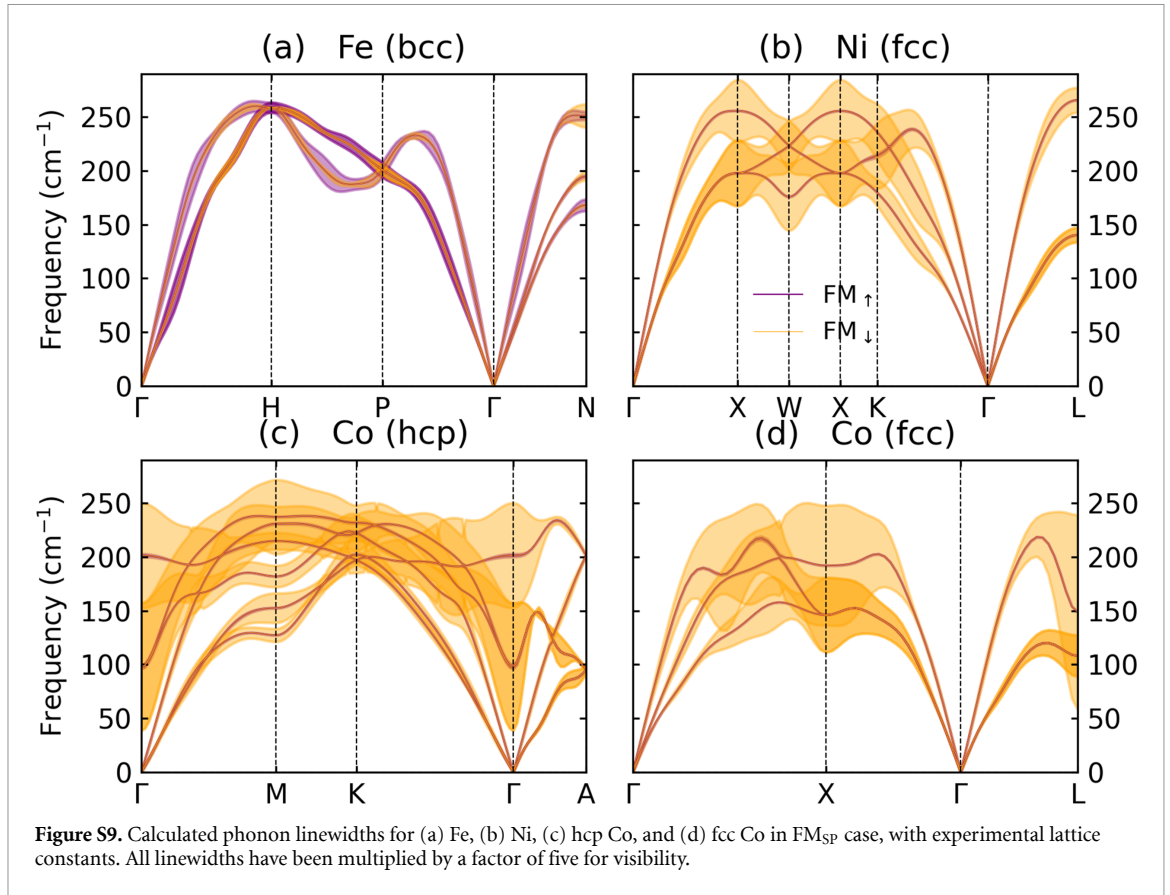


Figure S6. Calculated band structures and density of states (DOS) for (a) Fe, (b) Ni, (c) hcp Co, and (d) fcc Co, with experimental lattice constants.





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