**Erratum: Unraveling the composition dependence of the martensitic transformation temperature:
A first-principles study of Ti-Ta alloys [Phys. Rev. B **94**, 224104 (2016)]**

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In the original paper we state in Sec. III that the atomic positions of the β phase (austenite) were fully relaxed. This does, however, only apply to the calculations for the α'' phase (martensite), whereas for the β phase atomic positions were kept at ideal bcc positions, and only the volume of the supercells was optimized.

Since at $T = 0$ K the β phase in Ti-Ta alloys is unstable in the investigated composition range, the structures directly relax into the stable α'' phase upon full optimization of all degrees of freedom. We therefore chose a constrained approach with fixed atomic positions for the β phase.

We would like to thank A. Ferrari for pointing out the discrepancy between the energies of the β phase for fully relaxed structures that already closely resemble the α'' phase and structures with optimized volume and fixed atomic positions as reported in our article.