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# Ca<sub>2</sub>NiSn<sub>2</sub> – A Polymorphic Intermetallic Phase: Atomic and Electronic Structure as well as a Topological Description of the Phase Transition by a Sigmatropic-Type Rearrangement of Ni and Sn Atoms

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**Keywords:** Tin / Intermetallic phases / ELF (Electron Localization Function) / Chemical bonding / Phase transitions

The two sentences starting in line 6 from the bottom of the first column and the caption of Figure 3 on page 989 as well as the corresponding reference [8] on page 996 of the original article<sup>[1]</sup> are erroneous, they should read as follows.

For example, the distorted square  $1_{\infty}[\text{Ni}_2\text{Sn}_2]$  ladder is observed in the Ni–Sn substructure of NP-CeNiSn<sup>[8]</sup> (TiNiSi structure type,<sup>[9]</sup> Figure 3, a). In NP-CeNiSn the ladders are directly connected to form a three-dimensional network with Ce atoms situated in the cavities.

Figure 3. Crystal structures of a) NP-CeNiSn,<sup>[8]</sup> b) Ca<sub>6</sub>Cu<sub>2</sub>Sn<sub>7</sub>,<sup>[10]</sup> c) SrNiSn<sub>2</sub>,<sup>[12]</sup> d) Sm<sub>2</sub>NiSn<sub>4</sub>,<sup>[13]</sup> and e) Yb<sub>3</sub>CoSn<sub>6</sub>.<sup>[31]</sup> The alkaline earth and rare earth metal atoms are drawn as black spheres, the tetrel and transition-metal atoms as white and grey spheres, respectively.

[8] a) R. V. Skolozdra, O. E. Koretskaya, Y. K. Gorelenko, *Inorg. Mater.* **1984**, 20, 520; b) G. Nakamoto, T. Takabatake, H. Fujii, A. Minami, K. Maezawa, I. Oguro, A. A. Menovsky *J. Phys. Soc. Jpn.* **1995**, 64, 4834; c) J. F. Riecken, G. Heymann, W. Hermes, U. C. Rodewald, R. D. Hoffmann, H. Huppertz, R. Pöttgen, *Z. Naturforsch., B* **2008**, 63, 695.

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