# addenda and errata

# Thermoelectric transport properties in magnetically ordered crystals. Further corrigenda and addenda

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Further corrigenda and addenda for the article by Grimmer [*Acta Cryst.* (2017), A**73**, 333–345] are reported. New figures in the supporting information show how the restrictions on the forms of galvanomagnetic and thermomagnetic tensors are related to those on corresponding thermoelectromagnetic tensors.

*Corrigenda.* Corrections to Grimmer (2017) are needed in Figs. 4(*c*) and 6(*c*) for the fourth-rank tensors containing components marked in blue and in Fig. 6(*b*) for $\rho_{ijlm}^-$, $k_{ijlm}^-$ in magnetic form class 4′. The corrections are included in the figures in the supporting information.

*Addenda.* For even tensors (invariant under space inversion $\bar{1}$ and time inversion 1′), the galvanomagnetic tensors $\rho$ and the thermomagnetic tensors $k$ are symmetric in the first two indices if the rank is even and antisymmetric if the rank is odd, whereas the thermoelectromagnetic tensors $\Sigma$ are general for all ranks. For magnetic tensors (invariant under $\bar{1}$ and changing sign under 1′), $\rho$ and $k$ are antisymmetric in the first two indices if the rank is even and symmetric if the rank is odd, whereas the tensors $\Sigma$ are general for all ranks. The intrinsic symmetry of these tensors has been discussed in more detail by Gallego *et al.* (2019).

Exchanging ● and ○ for certain components, new figures are obtained that clearly show how the forms of the tensors for $\rho$ and $k$ are related to those for $\Sigma$. The forms of the tensors for the limit point groups described in Grimmer (2019) are included in the supporting information in Figs. 1–6.

## References

Gallego, S. V., Etxebarria, J., Elcoro, L., Tasci, E. S. & Perez-Mato, J. M. (2019). *Acta Cryst.* A**75**, 438–447.

Grimmer, H. (2017). *Acta Cryst.* A**73**, 333–345.

Grimmer, H. (2019). *Acta Cryst.* A**75**, 409.