

Supplementary Materials for  
**Nonreciprocal thermal transport in a multiferroic helimagnet**

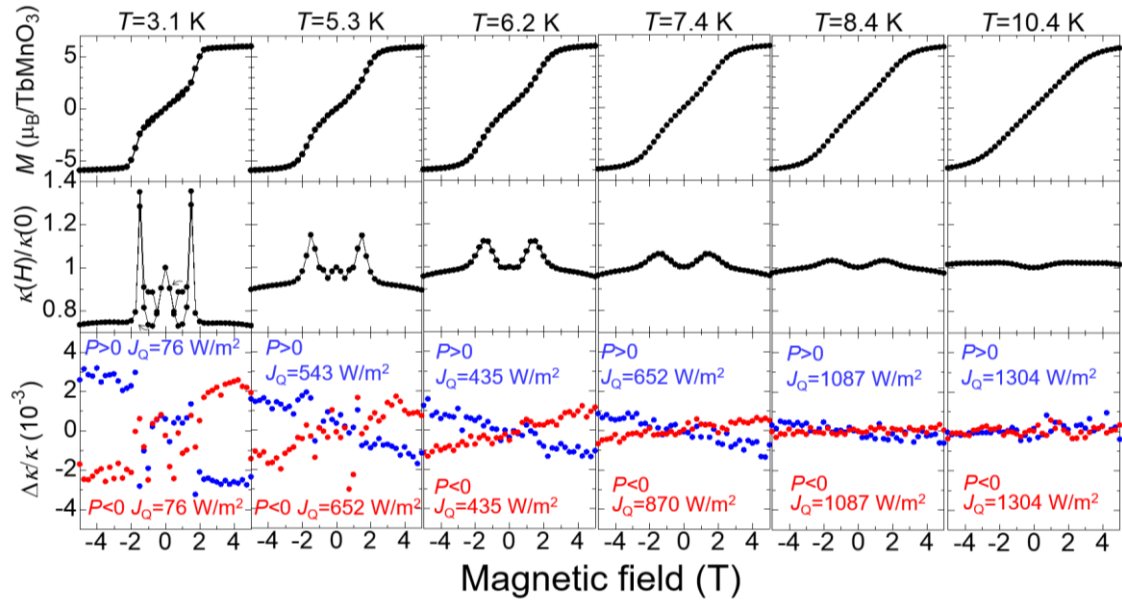
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**This PDF file includes:**

Fig. S1



**Fig. S1:** Magnetic and thermal transport properties at various temperatures. Magnetic field variations of magnetization, thermal conductivity, and thermal nonreciprocity for  $\pm P$  at  $T = 3.1$  K,  $5.3$  K,  $6.2$  K,  $7.4$  K,  $8.4$  K, and  $10.4$  K. The thermal current densities for the thermal conductivity measurements are shown in the lower panels.