Electronic Supporting Information for

Magnetic properties of $Ln_2CoGe_4O_{12}$ and $LnBCoGe_4O_{12}$ (Ln = Gd, Tb, Dy, Ho, Er; B = Sc, Lu))

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Figure S1 (a) Observed (red) and calculated (green) neutron diffraction profiles for $Tb_2CoGe_4O_{12}$ recorded using $\lambda = 2.4397$ Å at 300 K; a difference curve is also shown. Upper and lower vertical markers indicate magnetic and structural reflection positions, respectively.

(b) Observed (red) and calculated (green) neutron diffraction profiles for $Tb_2CoGe_4O_{12}$ recorded using $\lambda = 1.622$ Å at 1.5 K; a difference curve is also shown. Upper and lower vertical markers indicate magnetic and structural reflection positions, respectively.

(c)Observed (red) and calculated (green) neutron diffraction profiles for TbScCoGe₄O₁₂ recorded using $\lambda = 1.622$ Å at 1.5 K; a difference curve is also shown. Upper and lower vertical markers indicate magnetic and structural reflection positions, respectively.

Figure S2 Expanded view of the fits to the low-angle regions of the 1.5 K diffraction profiles of (a) Tb₂ScCoGe₄O₁₂ and (b) TbScCoGe₄O₁₂.

(a) Tb₂CoGe₄O₁₂ at 300 K, λ = 2.4397 Å



(b) $Tb_2CoGe_4O_{12}$ at 1.5 K, $\lambda = 1.622$



(c) TbScCoGe₄O₁₂ at 1.5 K, $\lambda = 1.622$ Å



Figure S1





(a)



Figure S2